



Radiation Oncology  
UNIVERSITY OF TORONTO

Annual Report  
2010-2011

***Vision:***

Excellence and leadership in radiation medicine research, education, and clinical practice

***Mission:***

To advance the science and practice of radiation medicine

## Table of Contents

Chair's Report.....	5
Vice Chair Reports.....	7
Faculty and Staff lists.....	10
Committees.....	14
Clinical Programs.....	19
Education Report.....	22
Graduate Education.....	24
Undergraduate Medical Education.....	33
Postgraduate Medical Education.....	34
Continuing Education.....	40
Medical Radiation Sciences Program.....	46
Equity Report.....	52
Research Report.....	53
Research Grants.....	59
Publications.....	69
Peer-reviewed.....	69
Non peer-reviewed.....	99
Book Chapters.....	99
Abstracts.....	106
Presentations.....	126
Awards.....	161
Research Day.....	165

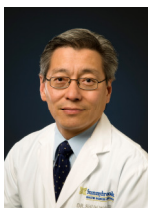
## Department of Radiation Oncology Executive 2010-2011



Chair  
Mary Gospodarowicz



Vice-Chair  
Academic Affairs  
Pam Catton



Vice-Chair  
Clinical Affairs  
Shun Wong



Vice-Chair  
Academic Programs  
David Jaffray



Associate Chair,  
Graduate Studies &  
Radiobiology Director  
Bradly Wouters



Director  
Postgraduate Education  
Barbara-Ann Millar



Director  
Fellowship Program  
Charles Catton



Director  
Physics Residency  
Jean-Pierre Bissonnette



Director  
Graduate Education  
Nicole Harnett



Director  
Undergraduate Education  
May Tsao



Director  
Academic Communications  
Anthony Brade



Director  
Continuing Education  
David Wiljer



Director  
Equity  
Fei-Fei Liu

## **Chair's Letter**

### **Mary Gospodarowicz, MD, FRCPC, FRCR (Hon)**

Professor and Chair

It is with great pleasure that I present to you the University of Toronto, Department of Radiation Oncology 2010-2011 Annual Report. Our Department has continued to expand research, education, and clinical practice while maintaining a keen eye on our future directions.

Our Department grew significantly over the past year as we welcomed eighteen new members to the UT DRO faculty, eight of whom hold adjunct appointments.

Our faculty continues to make significant contributions to research and education on an international level, securing funding from agencies worldwide and receiving honors for their work. This fall, Professor Bernard Cummings will be awarded the prestigious ASTRO Gold Medal, ASTRO's highest honor, for his outstanding contributions to the field of radiation oncology, including research, clinical care, teaching and service. Dr. Andrea Bezjak became Canadian Association of Radiation Oncology (CARO) President-Elect and will take over as CARO's President in September. At Sunnybrook, Dr. Eileen Rakovitch was appointed Campbell Chair in Breast Cancer Research, and Dr. Gregory Czarnota was appointed Director of Cancer Research.

Congratulations are due to Dr. Normand Laperriere, who was promoted to the rank of full Professor, and Drs. Lisa Barbera, Gregory Czarnota, and Gerard Morton, who were promoted to the rank of Associate Professor.

I am excited to announce that the first class of the new Master of Health Science in Medical Radiation Sciences completed their studies in August and will be set to convocate this November. The program's second class will begin their studies in September 2011, and will have the option of learning via a new distributed learning format that supports the completion of most coursework outside of Toronto.

Our department continues to provide excellent programs and events and this would not be possible without the help of our faculty and committees. This year, our CE planning committee was successful in securing a CIHR Grant for the RTi3 meeting. RTi3 was attended by a record 140 participants from five countries. The Target Insight conference partnered with Cancer Care Ontario once again in 2011 and attracted its biggest audience to date, 190 registrants.

We made considerable progress defining our Department's future direction through the strategic planning process. With the advice of faculty, and of leaders in radiation oncology worldwide, we have identified key priorities moving forward. I look forward to working toward these common goals with the continued cooperation, feedback, and assistance of our outstanding faculty.

I am grateful for the support and dedication of Vice Chairs Professors David Jaffray, Pamela Catton, and Shun Wong over the past year. Professor Catton led the Department as Acting Chair from June to October 2010 while I was on sabbatical, and oversaw the implementation of our new Departmental website. The capable leadership and achievements of our Vice Chairs have an immeasurable impact on the success of our entire faculty and the Department as a whole.

As you review our achievements in this report, I am certain that that you will be impressed with the output and direction of the Department.

**Mary Gospodarowicz, MD, FRCPC, FRCR (Hon)**  
Professor and Chair

## **Vice-Chair Reports**

### **Academic Affairs**

Dr. Pamela Catton

As Vice-Chair for Academic Affairs, Dr. Pamela Catton is responsible for the oversight of all education and financial activities in the Department. During the 2010-2011 period our focus was on: 1.) Developing our academic partnerships 2.) Renewing MRS Program elements 3.) Consolidating the successes of the Fellowship Program

1. The UTDRO has a number of academic partnerships at the institutional, departmental and course levels resulting in innovative programs and services for our students. In particular, our relationship with Michener Institute is longstanding. This year, we worked with leadership to recruit a new Chair for the Radiation Therapy Stream to succeed Fiona Cherryman, a UTDRO faculty member who has moved portfolios. We welcome Catherine Ladhani as incoming Chair. The strong relationship with the Department of Physiology and the Division of Teaching Laboratories at U of T has continued to flourish. This relationship, in collaboration with the Division of Anatomy in the Department of Surgery, continues with the ongoing development of an online Anatomy course to be implemented and delivered to MRS students in September 2011. Discussions with Ryerson University Department of Physics on developing a deeper collaboration for the delivery of graduate and undergraduate teaching in medical physics and biology have resulted in the joint offering of an applied physics course, with a promise for greater integration in the future.

2. The MRS Program replaced the traditional admissions personal interview with the Multiple Mini Interview (MMI). The MMI is an admissions process where applicants complete a circuit of eight mini-interview stations, rotating from station to station evaluating non-cognitive characteristics. Students, didactic and clinical faculty all participated as raters and viewed it as a fair and unbiased method of applicant selection. The clinical simulation semester, designed to better prepare students for entry into the clinical practicum component of the Program continues to evolve and advance, as newer technologies become available. We saw increased participation from the medical radiation sciences clinical faculty, particularly from Princess Margaret Hospital and the Odette Cancer Centre. The MRS Program also continues to align and integrate the UofT longitudinal interprofessional learning activities throughout the MRS curriculum.

3. The UT DRO Fellowship Program has grown to be one of the largest and most successful radiation oncology fellowship programs in North America, attracting excellent candidates from around the world. This past year 27 Fellows were involved in the Fellowship program at both sites, from Australia (5); Canada (12); Ireland (1); Japan (1); New Zealand (3); UK (5). The Fellows are very productive academically in the short time they are with us and this past year saw 45 abstracts accepted, 17 papers published, \$285,000 in grant funding awarded, and fellows were PI in three instances. Two of our fellows won prestigious research awards: an ASCO Young Investigator Award and the IMS Whiteside Thesis Dissertation Award.

## **Clinical Affairs**

Dr. Shun Wong

As Vice-Chair for Clinical Affairs, Dr. Shun Wong is responsible for policy and program issues related to relations with clinical sites and faculty. In this portfolio, he oversees the appointment, three-year review and academic promotions of members of the Department, and ensures that the recruitment and clinical manpower plan at the clinical sites is aligned with the academic plan of the University Department.

The past 12 months have witnessed continuing growth of research and educational activities at Princess Margaret Hospital (PMH)-University Health Network and Odette Cancer Centre-Sunnybrook Health Sciences Centre (Odette). The opening of the radiation treatment unit at Southlake has resulted in a small decrease in clinical activities at both PMH and Odette. Just over 9600 treatment courses were delivered at PMH, and 6156 new radiation oncology cases were seen at Odette in fiscal 2010-11. Both centres continued with upgrading of state-of-the-art radiation planning and treatment units and information systems. Despite the economic downturn, the radiation program at the two sites continued to benefit from strong philanthropic support by their respective hospital foundations. Dr. Rakovitch was awarded an endowed chair (Campbell Chair for Breast Cancer Research) at Sunnybrook, and Dr. Czarnota was appointed Director of Cancer Research at Sunnybrook.

The Department continued to foster its regional leadership in research and cancer care in collaboration with Cancer Care Ontario. The Department continued to provide educational and clinical support to an expanding list of academic and community hospitals both within and outside the Toronto Central LHIN. New initiatives included multidisciplinary tumor boards and consultation services at The Scarborough Hospital, St. Joseph's Health Centre and St. Michael's Hospital.

We bid farewell to Drs. Deidre Batchelar and Joyce Nyhof-Young.

The academic activities of the Department continued to grow with a number of successful recruits in all three clinical disciplines, Radiation Oncology, Physics and Radiotherapy. New appointments in 2010-2011 included: Dr. Caroline Chung, Assistant Professor; Dr. Stanley Liu, Assistant Professor; Dr. Warren Foltz, Assistant Professor; Dr. Teodor Stanescu, Assistant Professor; Dr. Justin Lee, Assistant Professor; Mr. Neil D'Souza, Lecturer, Ms. Carina Feuz, Instructor; Ms. Florencia Siu Moon Jon, Instructor; Ms. Kieng Tan, Instructor and Dr. Masoom Haider, Cross Appointment: Professor. A process has begun to offer adjunct academic appointments to radiation oncologists at Southlake, Credit Valley and Royal Victoria Hospital to support teaching and educational activities at these community hospitals.

Congratulations are in order to Drs. Lisa Barbera, Gregory Czarnota and Gerard Morton who were promoted to the rank of Associate Professor and to Dr. Normand Laperriere who was promoted to the rank of Professor.



## Academic Programs

Dr. David Jaffray

As Vice-Chair for Academic Programs, Dr. David Jaffray is responsible for the oversight of the research programs in the Department. During the 2010-2011 period the Department embarked on its new Strategic Plan. This plan highlighted many objectives for Department development, including, a number of specific research directions. The research directions include:

1. Repairing radiation damage including developing the world's first program in "Radio-Repair"
2. Optimized biological and physical targeting for the patient including multidisciplinary, multimodal targeting, initiating radioisotope therapy research, and smart particle therapy research
3. Informatics for radiation oncology including creating a Toronto-wide data warehouse.
4. Metastatic and recurrent disease research including building the best metastatic disease management program in the world.

These directions are now being matured into specific objectives with actionable items through the efforts of many faculty and external thought leaders. While establishing these specific research objectives is an important step in implementing the strategic plan, I have been more excited by the nature of discussion that these objectives have stimulated between and across the clinical sites of the UTDRO and with outside partners. In fact, there is a clear shift towards more communication and collaboration as the Department faculty take the Strategic Plan 'on the road' to get engagement. It appears the open, outward statements of the strategic plan results in the effort belonging to everyone and everyone wants to see it grow. It is clear to me that the development of collaborative programs to address the strategic objectives will begin to leverage the substantial research productivity and leadership opportunity that the UTDRO represents.

This deployment of the strategic plan is occurring on a very encouraging backdrop of positive trends in research productivity - our annual research activity analysis demonstrates a significant increase in research dollars raised by the Faculty. There is also a modest increase in the number of publications per investigator and the quality of the publications is trending up over the past 5 years (percentage of publications in intermediate impact journals,  $5 < \text{JIF} < 10$ , at 28%) while holding steady in the number of publications in higher impact journals (7%). As part of our reporting this year, we have implemented an analysis to watch for cross-site (PMH, OCC) and cross-discipline (RT, RO, RP) publication rates. With this metric, we should be able to monitor the dynamics of our distributed, multi-disciplinary research enterprise as we pursue our strategic plan. After all, it would be nice to not only say we have a uniquely multi-disciplinary research program, but to actually be able to prove it!

## **Faculty**

### **Radiation Oncology**

#### **Professor**

Andrea Bezjak  
James Brierley  
Robert Bristow  
Charles Catton  
Pamela Catton  
Edward Chow  
Bernard Cummings

Laura Dawson  
Anthony Fyles  
Mary Gospodarowicz  
Normand Laperriere  
Fei-Fei Liu  
Michael Milosevic  
Brian O'Sullivan

Jean-Philippe Pignol  
Gillian Thomas  
Richard Tsang  
Padraig Warde  
Rebecca Wong  
Shun Wong

#### **Associate Professor**

Ida Ackerman  
Lisa Barbera  
Gregory Czarnota  
Cyril Danjoux  
David Hodgson

Andrew Loblaw  
Robert G. MacKenzie  
Cynthia Menard  
Gerard Morton  
Lawrence F. Paszat

David Payne  
Eileen Rakovitch  
Jolie Ringash  
Yee Ung

#### **Assistant Professor**

Judith Balogh  
Elizabeth Barnes  
Andrew J. Bayley  
Anthony Brade  
Patrick Cheung  
John Cho  
Caroline Chung  
William Chu  
Hans Chung  
Peter Chung  
Phillip Davey

Robert E. Dinniwell  
Mary A. Doherty  
Saibishkumar Elantholi  
Parameswaran  
Andrew J. Hope  
John Kim  
Anne Koch  
Justin Lee  
Wilfred Levin  
Stanley Liu  
Lee A. Manchul

Michael McLean  
Barbara-Ann Millar  
Ian Poon  
Arjun Sahgal  
Jacqueline Spayne  
Alex Sun  
Ewa Szumacher  
May Tsao  
Danny Vesprini  
John Waldron  
Woodrow Wells

#### **Adjunct**

Marisa Finlay  
Charles Hayter  
Glenn Jones

Jidong Lian  
Thomas McGowan  
Christiaan Stevens

Jonathan Tsao  
Jasper Yuen  
Yongjin Wang

### **Radiation Physics**

#### **Professor**

David Jaffray

John Rowlands

#### **Associate Professor**

Kristy K. Brock  
Michael Sharpe

**Assistant Professor**

Hamideh Alasti  
Deidre Batchelar  
Jean-Pierre Bissonnette  
Stephen L. Breen  
Marco Carlone  
Young-Bin Cho  
James Chow  
Catherine Coolens  
Timothy Craig

Warren Foltz  
Mostafa Heydarian  
Mohammad Islam  
Brian Keller  
Harald Keller  
Daniel Letourneau  
Patricia Lindsay  
Miller MacPherson  
Katherine Mah

Howard Michaels  
Douglas Moseley  
Geordi Pang  
Thomas Purdie  
Katharina Sixel  
Teodor Stanescu  
Collins Yeboah  
Ivan Yeung  
Beibei Zhang

**Lecturer**

David Beachey  
Anna Simeonov

Robert Heaton

Alexander Lightstone

**Radiation Therapy****Associate Professor**

Tara Rosewall

**Assistant Professor**

Amanda Bolderston  
Caitlin Gillan  
Carol Gillies

Nicole Harnett  
Lori Holden  
Sophie Huang

Cathryne Palmer  
Douglass Vines

**Lecturer**

Neil D'Souza  
Lisa DiProspero

Valerie Kelly  
Winnie Li

Karen A. Moline  
Emily Sinclair

**Instructor**

Ruth Barker  
Renate Bradley  
Angela Cashell  
Martin Chai  
Patricia Charman

Fiona Cherryman  
Marta Evans  
Carina Feuz  
Wendy Flanagan  
Jane Higgins

Florencia Jon  
Kari Osmar  
Marc Potvin  
Aisha Sheikh  
Kieng Tan

**Biology****Professor**

Bradly G. Wouters

**Assistant Professor**

Marianne Koritzinsky

**Education****Associate Professor**

Joyce Nyhof-Young

**Assistant Professor**

David Wiljer

**Cross-appointments****Professor**

Masoom Haider

Richard Hill

Andrew M. Rauth

**Associate Professor**

Alex Vitkin

**Assistant Professor**

John Rawlinson

Milton Woo

**New Appointments 2010-2011**

Caroline Chung

Neil D'Souza

Carina Feuz

Marisa Finlay

Warren Foltz

Masoom Haider

Charles Hayter

Florencia Jon

Glenn Jones

Justin Lee

Jidong Lian

Stanley Liu

Teodor Stanescu

Christiaan Stevens Kieng Tan

Jonathan Tsao

Yongjin Wang

Jasper Yuen

**Departures 2010-2011**

Deidre Batchelar

Joyce Nyhof-Young

**Promotions - Effective July 2011****Professor**

Normand Laperriere

**Associate Professor**

Lisa Barbera

Gregory Czarnota

Gerard Morton

**UT DRO Staff**

Administrative Manager  
Business Officer  
Communications Officer

Effie Slapnicar  
Telma Liu  
Alicia O'Shell

**Administrative Coordinators**

Resident Training Program  
Physics Residency in Radiation Oncology  
Fellowship Training Program

Kim O'Hearn  
Tanya Webb  
Elena Gessas

**Medical Radiation Sciences Program**

Associate Registrar  
Student Services Officer  
Education Officer

Jeremy Kwan  
Humberto Rocha  
Tanya Webb

## **Department of Radiation Oncology Committees**

### **Executive Committee**

Mary Gospodarowicz (Chair)  
Jean-Pierre Bissonnette  
Anthony Brade  
Charles Catton  
Pamela Catton  
Fiona Cherryman  
Hans Chung  
Nicole Harnett  
David Jaffray  
Fei-Fei Liu  
Stanley Liu  
Katherine Mah  
Barbara-Ann Millar  
Cathryne Palmer  
Tom Purdie  
Effie Slapnicar (Ex-officio)  
May Tsao  
Padraig Warde  
David Wiljer  
Shun Wong  
Bradly Wouters

### **Finance Committee**

Pam Catton (Chair)  
Mary Gospodarowicz  
David Jaffray  
Telma Liu (Ex-officio)  
Effie Slapnicar (Ex-officio)  
Shun Wong

### **Appointments Committee**

Shun Wong (Chair)  
Pam Catton  
Mary Gospodarowicz  
David Jaffray  
Effie Slapnicar (Ex-officio)

**Academic Communications Committee**

Anthony Brade (Chair)  
Kristy Brock  
Elisa Chan  
Greg Czarnota  
Adrian Ishkanian  
Kim O'Hearn (Ex-officio)  
Alicia O'Shell (Ex-officio)  
Effie Slapnicar (Ex-officio)  
Anand Swaminath  
Jon Thoms  
Danny Vesprini  
Tanya Webb (Ex-officio)

**Academic Promotions Committee**

Shun Wong (Chair)  
Pam Catton  
Edward Chow  
Mary Gospodarowicz  
David Jaffray  
Fei-Fei Liu  
Michael Milosevic  
Jean-Philippe Pignol

**Teaching Effectiveness Committee**

Jean-Pierre Bissonnette (Chair)  
Ida Ackerman  
Pamela Catton (Ex-officio)  
Lisa DiProspero  
Normand Laperriere  
Effie Slapnicar (Ex-officio)  
Bradly Wouters

**Education Committees****Undergraduate Medical Education Committee**

May Tsao (Chair)  
John Cho  
Lee Manchul  
Joyce Nyhof-Young  
Kim O'Hearn (Ex-officio)  
Ewa Szumacher

**Postgraduate Medical Education Committee**

Barbara-Ann Millar (Chair)  
Ida Ackerman  
Robert Bristow  
Michael Milosevic

Ewa Szumacher  
Rebecca Wong

**Fellowship Committee**

Charles Catton (Chair)  
Anthony Fyles  
Mary Gospodarowicz  
Barbara-Ann Millar  
Michael Milosevic  
Gerard Morton  
Effie Slapnicar (Ex-officio)  
Shun Wong



## **Department of Radiation Oncology Representation On University of Toronto Committees**

### **Ackerman, I**

Continuing Education Committee, Member

### **Catton, P**

Faculty of Medicine Education Committee, Member

Hospital and University Education Committee, Member

Faculty Council Board of Examiners, Faculty of Medicine, Chair

Institute of Medical Science, Curriculum Committee, Member

### **Gospodarowicz, M**

Clinical Chairs Committee, Faculty of Medicine, Member

Clinical and Basic Science Chairs Committee, Faculty of Medicine, Member

Clinical Relations Committee, Faculty of Medicine, Member

Council of Health Sciences Committee, Faculty of Medicine, Member

Clinical Relations Committee, Member

Faculty Council, Member

### **Harnett, N**

Admissions Committee, Institute of Medical Science, Member

Faculty Council, Faculty of Medicine, Member

### **Manchul, L**

Faculty Council Continuing Education Committee, Member

Oncology Continuing Education Committee, Member

### **Millar, BA**

Internal Review Committee, Member

Postgraduate Education Advisory Committee, Member

### **Nyhof-Young, J**

Dean's Advisory Committee for Equity and Diversity, Member

Preclerkship Committee, Faculty of Medicine, University of Toronto, Member

Clerkship Committee, Faculty of Medicine, University of Toronto, Member

Curriculum Evaluation Committee, Undergraduate Medicine, Faculty of Medicine, University of Toronto, Member

Determinants of Community Health Year 1 Course Planning Group, Faculty of Medicine, Member

### **Palmer, C**

Interfaculty Curriculum Committee, Office of Interprofessional Education, Faculty of Medicine, Member

Steering Committee, Physician Assistant Education Program, Faculty of Medicine, Member

Health Sciences Committee on Emergency Preparedness, Member

Task force on Valuing Academic Performance Phase 2, Member

### **Ringash, J**

Research Grants Committee, Faculty of Medicine, Member

Clinical Epidemiology Program Executive Committee, Department of Health Policy, Management and Evaluation, Member

Clinical Epidemiology Graduate Programme Admissions Committee, Department of Health Policy, Management, and Evaluation, Chair

Academic Board of the Governing Council, Member

Faculty Council, Faculty of Medicine, Member

Clinical Epidemiology, Department of Health Policy, Management and Evaluation, Associate Programme Director

Curriculum Committee, Department of Health Policy, Management and Evaluation, Member

Faculty Committee, Department of Health Policy, Management and Evaluation, Member

**Wiljer, D**

Continuing Education Directors & Leaders Committee, Member

## **Clinical Programs**

### **Princess Margaret Hospital**

Dr. Padraig Warde

The Princess Margaret Hospital Radiation Medicine Program (RMP) is one of the largest in the world with 36 radiation oncologists, 30 physicists, and 160 radiation therapists. In 2010 RMP staff saw over 8,000 patients in consultation and delivered over 9,600 courses of radiation therapy. With modern facilities equipped with 16 linear accelerators, all IMRT and IGRT enabled, Leksell Gamma Knife 4C and Perfexion, HDR and PDR brachytherapy programs, it is capable to handle most radiation therapy challenges.

The clinical expertise spans all cancer sites with large breast, lung, genitourinary, upper and lower gastrointestinal, gynecologic, head and neck, central nervous system, ocular, lymphoma, sarcoma, skin, endocrine and pediatric radiation oncology groups. In 2010-11, PMH RMP continued to expand its clinical and academic programs. RMP faculty provided consultations in many collaborating institutions including St Michael's and St. Joseph's Hospitals in Toronto and the Southlake Cancer Centre in Newmarket.

One of the key initiatives undertaken in 2010 was the establishment of a multidisciplinary brain metastasis clinic. The clinic team (radiation oncologist, neurosurgeon, neuro-oncologist, radiation therapist and a nurse) works with patients and their primary oncologists to pursue optimized treatment strategies aimed at controlling tumours in the brain and addressing all surgical, radiation and systemic therapy options, as well as experimental therapies available through participation in clinical trials. Advances in radiation therapy and neurosurgical techniques have made it possible to focus more aggressive treatment on multiple well-defined lesions, offering the possibility of better control of brain metastases, improved neurological functioning and quality of life, as well as longer survival. Clinic team members have regular debrief sessions to ensure that everyone is fully apprised of each patient's case and treatment, to support seamless, multi-professional care delivery.

The staff is involved in broad scope of research programs from basic cancer biology research, translational research program, large clinical trials program, and significant health services research portfolio. Last year witnessed continued expansion of translational research conducted in newly opened STTARR. The STTARR research programs, [www.sttarr.ca](http://www.sttarr.ca), foster collaboration and interdisciplinary research. We are especially proud of the expanding research initiatives conducted by PMH radiation therapists, the largest such program in the country and one of the largest internationally. This is led by Tara Rosewall, associate professor in the Department of Radiation Oncology, University of Toronto.

RMP PMH leadership extends well beyond radiation oncology and Toronto. Dr Padraig Warde continues as Provincial Head, Radiation Treatment Program at Cancer Care Ontario. Dr. Marco Carlone continues as chair of Science and Education Council of the Canadian Organisation of Physicists in Medicine (COMP). Dr Miller MacPherson continue as the clinical physics lead Credit Valley Cancer Centres respectively. Dr. Jim Brierley continues as chair of the National Staging Advisory Committee of the Canadian Partnership against Cancer. Dr Mary Gospodarowicz is Regional Vice-President, Toronto South, Cancer Care Ontario and was made President-Elect of the UICC – she will take office at the UICC AGM in Montreal in 2012.

Reinforcing our role as regional leaders in radiation medicine, we have strengthened our clinical link with Southlake Regional Cancer Centre in Newmarket, Ontario. One of only 13 programs in Ontario designated by the provincial government to provide radiation treatment, the Stronach Regional Cancer Centre at Southlake officially opened in 2010, after a three-year collaboration with RMP to plan and develop its services. The centre will provide cancer patients from York Region and south Simcoe County with access to advanced cancer diagnostics, radiation treatment, and follow-up care. The new cancer program is the first centre in Ontario to open with one of the most advanced radiation treatment techniques, Image Guided Radiation Therapy, and RMP will offer mentoring and support in the application of precision radiation therapy techniques, as well as in clinical research, education programming and e-health initiatives, such as developing processes for sharing clinical protocols and treatment plans. RMP and Southlake have a combined physics program with DR Ivan Yeung as clinical lead, and there several cross appointments between the sites. Dr. Woodrow Wells from RMP was appointed as the Head of Radiation Oncology at Southlake, and remains on active staff in RMP.

The ongoing partnership with the Aviano Cancer Centre in Italy saw faculty from Italy visit PMH and presentations by RMP staff in Aviano Cancer Centre. A new partnership with the Kuwaiti Cancer Center (KCC) was initiated and an RMP leadership team visited the KCC in November 2010.

The year concluded with the unveiling of the RMP strategic plan – “A Moral Imperative to Innovate.” This initiative was led by Dr Brian O’Sullivan and was integrated with the University Department Strategic Plan. Implementation of the strategic plan will be a major focus of the upcoming year.

## **Odette Cancer Centre**

Dr. Shun Wong

The clinical, research and educational activities of the Radiation Treatment Program at Odette Cancer Centre at Sunnybrook Health Sciences Centre continue to grow. We project that about 6200 new radiation oncology patients will be seen in academic year 10-11, and we will deliver just over 7000 courses and 100,000 fractions of radiation treatment. Upgrades to the existing clinical infrastructure continued. This will include a new linac with full image-guided radiation treatment capability and upgrades to planning software. Many other specialized programs including tomotherapy, stereotactic radiation therapy (body and head) and brachytherapy continue to expand. A 3 Tesla MR simulator is supporting research in radiation treatment planning and high intensity focused ultrasound clinical protocols in collaboration with Imaging Research at the Sunnybrook Research Institute.

Dr. Justin Lee and Dr. Stanley Liu joined the Department as Assistant Professor. Dr. Lee joined the Department after completion of his MSc in the Department of Medical Biophysics, and Dr. Liu after completion of a post-doctoral fellowship at Oxford University. Planning continues for a new Breast Centre. Dr. Rakovitch was appointed the Campbell Chair for Breast Cancer Research. A search to recruit an academic leader to head the Department of Medical Physics continues. Dr. Andy Smith, Chair of General Surgery, University of Toronto, was appointed Chief of the Odette Cancer Centre.

The Program continues to foster its regional leadership role in cancer care. In addition to co-managing the temporary radiation treatment facility at the Royal Victoria Hospital, Radiation Oncologists continued to participate in peripheral clinics and multidisciplinary cancer conferences at a large number of academic and community hospitals both within and outside of the Toronto Central LIHN. Two new clinics, Breast and Gastrointestinal Radiation Oncology, were initiated at The Scarborough Hospital.

Faculty members continue to be successful in securing external peer-reviewed and industry supported grants. Most notable are two large team grants, a 3-year \$2.7 million CIHR Terry Fox Team Grant awarded to Dr. Gregory Czarnota, and a \$1.2 million Cancer Care Ontario Cancer Research Unit Grant awarded to Dr. Larry Paszat. Continuing its success in 2009, faculty at Sunnybrook once again published over 100 peer-reviewed articles in 2010. These research grants and publications are detailed elsewhere in the annual report.

## Education Report

### Introduction

The UTDRO has a comprehensive education program that supports the entire range of professional and research training needed for all three radiation medicine disciplines, and includes fully accredited pre and post certification programs at the undergraduate, postgraduate and graduate level, as well as thesis based research training at a Masters and Doctoral level. Professional Development and Continuing Education programs for all faculty are collaborative and interdisciplinary in nature.

### Highlights of the 2010-2011 report

#### *Medical Radiation Sciences BSc/Diploma Program*

- For the intake of 2011 the Program has chosen to replace the traditional personal interview with the Multiple Mini Interview (MMI). The MMI is an admissions interview process developed by McMaster University for its school of medicine. This process has been adopted by other health professional programs at UofT (such as the Physician Assistant Program and Pharmacy) as well as the health professional programs at Michener.

#### *Residency Program in Radiation Oncology Physics*

- In 2011, the program commenced an affiliation process with the Credit Valley Hospital, leading to ten resident positions for 2011-2012.

#### *Residency Program in Radiation Oncology*

- Dr. Eric Leung and Dr. Meredith Giuliani, both PGY4 residents, were multiple award winners this year for their research.

#### *Radiation Oncology Fellowship Program*

- Dr. Philip Wong won a very prestigious 2011 ASCO Young Investigator Award.
- Dr. Karen Lim won the IMS Whiteside Award for her MSc Thesis dissertation.
- 45 fellow abstracts were accepted and 17 manuscripts were published
- Three grants were awarded to fellows totaling \$285,000

#### *Graduate Studies*

- A larger attempt has been made to provide harmonization of curriculum in specific subject areas across the larger educational activities within UT DRO. This was initiated first in the MSC1502H translational radiobiology course. Last year this course was modified to include a new intensive 1-week program in clinical radiation biology that was redesigned as part of the post-graduate resident training programs in UT DRO.
- In the past year, efforts have begun to establish a database of all graduate students pursuing research degrees in the Radiation Sciences under the mentorship of UT DRO faculty. In the future, these trainees will be invited to participate in UT DRO educational activities and other research events. Furthermore, these students will be encouraged to participate in UT DRO graduate level courses currently offered through IMS.
- The first cohort of MHSc in MRS students – who entered the program in 2009 – will successfully complete the program in August 2011 and graduate in November 2011.
- For the second year in a row, Dr. Nadine Kolas, an EIRR21 alumnus (supervisor: Dr. Daniel Durocher), was the recipient of the highly coveted John Charles Polanyi Prize from the Ontario

Government, targeting researchers in the early stages of their careers who are continuing post-doctoral studies in Ontario. Dr. Karen Lim was the second EIRR21 trainee to receive the Whiteside Award (2011) from the Institute of Medical Sciences (IMS), awarded annually to a graduating MSc student who has made outstanding scholarly contributions.

#### *Continuing Education*

- Online registration platforms for RTi3 and Target Insight were developed for ongoing use.
- Interest in RTi3 and Target Insight increased with a record number of registrants this year: 140 and 190 respectively.

## **Graduate Education**

The UT DRO continues to expand its commitment to graduate level education and training in Radiation Medicine. This continues in part through close collaboration with the Faculty of Medicine's Graduate Institute - the Institute of Medical Science (IMS), as well as with other University Departments including Health Policy, Management and Evaluation (HPME) and Medical Biophysics (MBP). UT DRO faculty hold graduate appointments in these departments and have a long history of training researchers through mentorship in research MSc and PhD programs. Following the creation of a new UT DRO Associate Chair in Graduate Studies and appointment of Bradley Wouters to that position last year, the UT DRO has committed to create a larger 'home' for all of its graduate students participating in graduate programs across these departments. This will include continued development and participation in curriculum and training programs for graduate students in all of its major disciplines – biologists, clinicians, physicists, and therapists. The UT DRO will track and report on academic progression and output from these students across all relevant departments. The UT DRO also developed and recently renewed the CIHR funded Excellence in Radiation Research for the 21<sup>st</sup> century (EIRR21) program led by Fei-Fei Liu and more integral ties between this program and graduate education in UTDRO has been initiated. This includes preliminary work this year to establish a new graduate course in IMS based on current educational activities in EIRR. The UTDRO is committed to further expansion of both the number of MSc and Doctoral students pursuing degrees within the Radiation Oncology Stream as well as the number of UTDRO faculty at both the associate and full professor levels who participate in graduate level education. Finally, increased efforts to provide opportunities for interaction and collaboration through annual research events amongst UDTRO graduate students are underway.

## **UT DRO Graduate Training Initiatives at the University of Toronto**

### **1. Research track programs for biologists, physicists, clinicians and therapists**

#### **a) The Institute of Medical Science**

The UT DRO has established a collaborative relationship with the Institute of Medical Science in developing graduate research training opportunities in radiation medicine via the Radiation Oncology Stream. Through this partnership, trainees in all of the radiation medicine professional programs including biologists, clinicians, physicists, and therapists can seek MSc or PhD research degrees through supervision by UTDRO faculty holding appointments within the IMS. The partnership with IMS also includes the development and delivery of specific graduate courses by UT DRO faculty. Currently there are 3 courses that offer specific training in areas of relevance to radiation oncology. These courses continue to undergo annual improvements and in the past year have been expanded to include both core components and additional customized programs targeted at specific disciplines within UT DRO. Consequently, these courses are available to both research level graduate students as well as professional level graduate students in IMS (see below). In the future, these courses will be profiled and offered to UT DRO graduate students in other departments (e.g. MBP).

In addition, a larger attempt has been made to provide harmonization of curriculum in specific subject areas across the larger educational activities within UT DRO. This was initiated first in the MSC1502H translational radiobiology course. Last year this course was modified to include a new intensive 1-week program in clinical radiation biology that was redesigned as part of the post-graduate resident training programs in UT DRO. As such, this brings together basic researchers and clinical residents and gives them the opportunity to develop new collaborations with their clinical colleagues and to be taught



common radiobiology concepts from a group of expert faculty. This intensive week is supplemented by with a student-focused customized program that is of direct relevance to the participants' own research area. As such this course is appropriate for trainees in each of the different UT DRO disciplines. This approach also enables both research track and professional track students to benefit from this course. Similar developments are planned for the other IMS courses.

#### **UTDRO Research MSc/PhD Courses in IMS:**

*MSC1500H - Advanced Radiotherapy and Medical Physics*

Dr. Jean-Philippe Pignol, Director

*MSC1501H - Frontiers in Radiation Medicine Research*

Dr. Anthony Fyles, Dr. Anne Koch, Dr. Patricia Lindsay Directors

*MSC1502H - Translational Radiobiology Applied to Radiation Science*

Dr. Robert Bristow and Dr. Bradly Wouters, Directors

#### **b) Medical Biophysics Department**

A large number of UT DRO faculty who carry out research programs hold primary or cross-appointments in the Medical Biophysics Department (MBP) and supervise both radiation biology and radiation physics MSc and PhD trainees seeking research degrees in the Radiation Sciences. The UTD DRO has a long-standing history of research activity through this department and UT DRO faculty are integrally involved in the MBP Department, including membership on the executive committee (Dr. Bradly Wouters). As described above, the UT DRO has committed to increase its involvement in the training of these students and to provide a base for interaction with other researchers and training opportunities in the Radiation Sciences. In the past year, efforts have begun to establish a database of all graduate students pursuing research degrees in the Radiation Sciences under the mentorship of UT DRO faculty. In the future, these trainees will be invited to participate in UT DRO educational activities and other research events. Furthermore, these students will be encouraged to participate in UT DRO graduate level courses currently offered through IMS.

The MBP department also administers specific courses that contain substantial material of relevance to the radiation sciences and several of these courses use UT DRO faculty as course lecturers or course leaders. Agreements with MBP are in place to allow UT DRO graduate students in other faculties (IMS) to participate in these courses and the department will actively promote UT DRO faculty involvement in these courses. In the future, MBP courses containing curriculum of direct relevance to UT DRO trainees will be highlighted on the educational area of the UT DRO website and UT DRO faculty will encourage their trainees to participate in these courses.

*MBP 1018Y – Translational Oncology*

Dr. Bradly Wouters, Director

Goal: To expose graduate students to the concepts of translational oncology (“from bench to bedside”) through a series of seminar-type presentations highlighting recent advances of translational research; and to motivate graduate students to apply the concepts of translational oncology to their own research through a series of written and oral assignments. The theme of this year was personalized medicine.

### c) HPME

A significant number of UTDRO faculty also hold cross appointments in the Health Policy Management and Evaluation Department (HPME). Like MBP, HPME is a graduate department in the Faculty of Medicine and can confer MSc and PhD degrees to students seeking research degrees in the Radiation Sciences. The new graduate student database will include graduate students in HPME, and these students will also be strongly encouraged to participate in other UT DRO based courses and training and interaction opportunities.

### d) EIRR21

The EIRR21 program was renewed last year for a period of 6 years and continues its strong program to provide enhanced training opportunities in transdisciplinary science. The program continues to expand in size and scope and in the last year, efforts have begun to create integral ties between this program and graduate education in UTDRO. One of the important components of the EIRR program has been a series of 'brainstorm' sessions on topics of importance to Radiation Oncology led by a series of expert faculty. This is followed by individual projects and presentations designed to promote leadership skills. Preliminary work this year is underway to establish a new graduate course in IMS based on current educational activities in EIRR.

## 2. Professional Stream - MHSc Medical Radiation Sciences

*Graduate Program Director – Nicole Harnett*

### Program Overview

#### Phase I

The current program is an 8.0 FCE, 2-year fulltime program, offered through the Institute of Medical Science (IMS) designed for expert radiation therapy clinicians who want to expand their clinical expertise and academic competence. The IMS provides the ideal graduate unit for this program. It is the primary graduate unit for clinical departments in the Faculty of Medicine, including Radiation Oncology. Applicants to the program must be licensed, experienced practitioners who have demonstrated leadership and excellence in their current practice. The program is composed of course work (required and elective), clinical practica and a major research project designed to provide foundational radiation medicine content, expand clinical skills and reasoning, and further develop the skills of enquiry, innovation, knowledge translation and evidence-based practice. The semester-based programming is currently delivered in a live, onsite format.

The curriculum is built atop 3 pre-existing foundational courses already offered at IMS in the MSc and PhD streams. Another 8 courses were developed to complete this complex curriculum – all within the Department of Radiation Oncology. 13 UTDRO faculty members comprise the core program faculty serving as course directors and supervisors for this new breed of student. In addition, dozens of radiation medicine experts are drawn upon to deliver this state-of-the-art curriculum.

The first cohort of students – who entered the program in 2009 – will successfully complete the program in August 2011 and graduate in November 2011. There was no intake in Fall 2010 due to lack of qualified applicants. The program is currently processing applications for the Fall 2011 start date.

#### *Current and Projected Student Numbers to 2012*

Intake	Sept 2009	Sept 2010	Sept 2011	Sept 2012
--------	-----------	-----------	-----------	-----------

2009	3	2*		
2010		0	0	
2011 (projected)			4	4
2012 (projected)				8
<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>12</b>

\* One student withdrew from program due to personal reasons.

## **Phase II – September 2012**

As expected, recruitment for this fulltime, onsite program has been challenging. In order to expand program catchment, UTDRO is now taking the steps necessary to implement the modifications to the program that it feels will allow it to better meet the needs of its target population.

Beginning in Fall, 2011, application will be made to the University of Toronto to allow students to complete this MHScMRS program on a part time basis. This application will also include format modifications to all courses in order to adopt a “distributed learning” approach to program delivery. These proposed modifications will give this cohort of busy professionals/students the opportunity to maintain at least part-time employment during regular working hours to the extent they deem necessary/possible. Secondly, it will provide the means necessary to offer the MHSc MRS to students outside the GTA jurisdiction. As the only program of its kind in Canada, it is expected that this program will be sought out by experts across Canada as the only/unique preparation for advancing their clinical expertise and their scholarly competence. We believe our new format will afford the opportunity for us to recruit the best and brightest radiation therapy experts, both locally and from across the country to the University of Toronto in the MHSc MRS. Finally, it will permit students, who have not yet achieved the minimum level of clinical experience, to begin their didactic studies in anticipation of final internship year. A Self-Study document has been submitted under separate cover providing greater detail regarding this plan.

### **Courses:**

*MSC1500H - Advanced Radiotherapy and Medical Physics*

Dr. Jean-Philippe Pignol, Director

*MSC1501H - Frontiers in Radiation Medicine Research*

Dr. Robert Bristow and Dr. Bradly Wouters, Directors

*MSC1502H - Translational Radiobiology Applied to Radiation Science*

Dr. Anthony Fyles, Dr. Patricia Lindsay, Dr. Anne Koch, Directors

*MSC1503H, 1504H, 1505H – Clinical Reasoning and Decision Making in Radiotherapy I, II, III*

Dr. Pamela Catton and Ms. Nicole Harnett, Directors

*MSC1506H – Professional and Clinical Leadership*

Ms. Cathryne Palmer and Dr. Joyce Nyhof-Young, Directors

*MSC1507H – Clinical Competence, Evaluation and Continuous Learning*

Ms. Ruth Barker and Ms. Lisa Di Prospero, Directors

*MSC1508H – Medical Radiation Sciences Research Development*

Ms. Tara Rosewall, Director

*MSC1509H – Master's Research Project*

Ms. Tara Rosewall, Director

*MSC15010, 1511Y – Clinical Internship I, II*

Ms. Nicole Harnett, Director

UTDRO faculty contribution to the professional MHSc program is tremendous. More than 50 faculty serve as guest speakers, session facilitators, supervisors and mentors to the MHScMRS students over the course of the program. Faculty evaluations are consistently high and reflect the level of dedication of each faculty member to the education of the students in this program.

Table 1: DRO Faculty with cross-appointments in graduate studies programs

Last Name	First Name	Primary appointment	Cross appointment(s)
Barbera	Lisa	DRO	HPME
Loblaw	D. Andrew B.	DRO	HPME
McGowan	Thomas S.	DRO	HPME
Paszat	Lawrence F.	DRO	HPME
Rakovitch	Eileen	DRO	HPME
Bezjak	Andrea	DRO	HPME, IMS
Hodgson	David	DRO	HPME, IMS
Wong	Rebecca	DRO	HPME, IMS
Islam	Mohammad K.	DRO	IBBME
Catton	Pamela	DRO	IMS
Fyles	Anthony W.	DRO	IMS
Koritzinsky	Marianne	DRO	IMS
O'Sullivan	Brian	DRO	IMS
Bolderston	Amanda	DRO	IMS
Catton	Charles	DRO	IMS
Dawson	Laura	DRO	IMS
DiProspero	Lisa	DRO	IMS
Eccles	Cynthia	DRO	IMS
Gillies	Carol	DRO	IMS
Harnett	Nicole	DRO	IMS
Holden	Lori	DRO	IMS
Hope	Andrew	DRO	IMS
Kelly	Val	DRO	IMS
Menard	Cynthia	DRO	IMS
Milosevic	Michael	DRO	IMS
Nyhof-Young	Joyce	DRO	IMS
Palmer	Cathryne	DRO	IMS
Rosewall	Tara	DRO	IMS
Sixell	Katherina	DRO	IMS
Ward	Padraig	DRO	IMS
Wiljer	David	DRO	IMS
Barker	Ruth F.	DRO	IMS
Czarnota	Gregory J.	DRO	MBP
Koch	C. Anne	DRO	MBP
Wouters	Bradly G.	DRO	MBP
Michaels	Howard B.	DRO	MBP, IBBME
Brock	Kristy K.	DRO	MBP, IBBME, IMS
Jaffray	David	DRO	MBP, IBBME, IMS
Bristow	Robert	DRO	MBP, IMS
Liu	Fei-Fei	DRO	MBP, IMS
Pignol	Jean-Philippe	DRO	MBP, IMS
Wong	Shun	DRO	MBP, IMS
Rowlands	John	DRO	MI, MBP
Hill	Richard	MBP	DRO
Rauth	Andrew M.	MBP	DRO
Rawlinson	Alan	MBP	DRO
Vitkin	Alex	MBP	DRO
Woo	Milton K.	MBP	DRO
Haider	Masoom	MI	DRO

IMS=Institute for Medical Sciences

MBP=Medical Biophysics

HPME=Health Policy Management and Education

IBBME=Institute of Biomaterials and Biomedical Engineering

DRO=Department of Radiation Oncology

MI=Medical Imaging

## **The Terry Fox Foundation Strategic Training Initiative in Excellence in Radiation Research for the 21st Century (EIRR21) at CIHR**

Program Director Dr. Fei-Fei Liu

### ***Introduction***

The Terry Fox Foundation (TFF) Strategic Training for Excellence in Radiation Research for the 21st Century at the Canadian Institutes of Health Research, otherwise known as the EIRR21 Training Program, is a joint TFF-CIHR funded initiative designed to provide enhanced training opportunities to develop a new cadre of trans-disciplinary scientists. The primary objective is to build capacity in the domain of radiation research.

### ***Participants***

The trainees currently fully enrolled in the Program in 2010-2011 include:

<b>Trainee</b>	<b>Status</b>	<b>Supervisor(s)</b>
Alexander, Andrew	PhD	Dr. Jan Seuntjens (McGill)
Al-Hakim, Abdallah	PDF	Dr. Dan Durocher
Bassi, Christian	PhD	Dr. Vuk Stambolic
Fenton, Amanda	PhD	Dr. Anne Koch
Harding, Shane	PhD	Dr. Robert Bristow
How, Christine	PhD	Dr. Fei-Fei Liu
Kong, Iwa	MSc-MD	Dr. Eileen Rakovitch
Lenarduzzi, Michelle	PhD	Dr. Fei-Fei Liu
Pereira, Mark	PDF	Dr. Shana Kelley
Stapleton, Shawn	PhD	Dr. David Jaffray
Tse, Kenneth	PhD	Dr. Robert Bristow
Ding, Mei	PDF	Dr. Brad Wouters
Haider, Nasir	PhD	Dr. Vuk Stambolic
Sobol, Paul	PDF	Dr. Linda Penn
Mourtada, Rida	MSc	Dr. Shana Kelley
Yan, Rui	PDF	Dr. Fei-Fei Liu & Dr. Paul Boutros
Ko, Sungeon	PDF	Dr. Mitsu Ikura & Dr. Anne Koch

### ***Structure of Program***

EIRR21 continues to expand, with the current cohort of 14 active trainees, in addition to 3 alumni and 39 full graduates. Many of these graduates hold academic positions in Canada and Europe, as clinician-scientists, research physicists, post-doctoral fellows in research, or careers in the biotechnology industry or government. Hence, all alumni (100%) are contributing to biomedical research in some capacity, either within Canada or globally.

From the current 17 trainees, 3 have completed their full 2 years within EIRR21, but are still active participants because they find the Brainstorm sessions of particular value. Thirteen of the remaining 14 active trainees currently hail from the University of Toronto; one trainee is from McGill University. With the most recent competition (October 2010), 7 trainees were recruited into EIRR21.

### ***Academic Output***

The spectrum of research in EIRR21 continues to be broad, ranging from *in vitro* understanding of basic molecular mediators of radiation damage response and repair, to complex *in vivo* models of radiation-induced lung injury, novel radiopharmaceuticals for therapy and imaging human tumor models, to optimizing radiation treatment delivery to lung, cervix, and liver cancer patients, and discovering biomarkers for prostate cancer patient radiation response and toxicity. Such a breadth of research topics, embedded within a single research training program is truly unique, providing an outstanding network for inter-disciplinary interactions, enabling “bridging” science to be conducted.

The publication record from the EIRR21 trainees continues to be exceptional. In terms of quantity of publications, there are a total of 197 (published or in press) publications, contributed by 41 trainees, for an average of 4.8 papers per trainee, which is an impressive feat, given that the average duration for each trainee in EIRR21 is only approximately 2 years. In addition, several are in high impact cancer Journals, including *Science*, *Curr Biol*, *Mol Cell*, *J Clin Oncol*, *Mol Cell Biol*, *Cancer Res*, *Cl Cancer Res*, *Nucl Acid Res*, *J Cell Biol*; hence, both the quantity and quality of research are remarkable. For the second year in a row, Dr. Nadine Kolas, an EIRR21 alumnus (supervisor: Dr. Daniel Durocher), was the recipient of the highly coveted John Charles Polanyi Prize from the Ontario Government, targeting researchers in the early stages of their careers who are continuing post-doctoral studies in Ontario. Dr. Karen Lim was the second EIRR21 trainee to receive the Whiteside Award (2011) from the Institute of Medical Sciences (IMS), awarded annually to a graduating MSc student who has made outstanding scholarly contributions. Both are testaments to the outstanding caliber of research conducted by our EIRR21 trainees.

### ***Special Activity this Year***

In April 2009, this training program successfully renewed for another 6 years, for a total of \$1.95M. Our application ranked 5 of 31 in the panel, and was selected for full funding by the Terry Fox Foundation. The vision of EIRR21 is to recruit and train innovative trans-disciplinary Radiation Medicine Researchers who will form the next generation of investigators in developing and implementing an integrated research perspective encompassing novel diagnostic, therapeutic, and evaluative approaches to Radiation Therapy. Since 2003, 56 trainees from a variety of different research backgrounds including radiation medicine, physics, imaging science, bio-informatics, molecular biology, chemistry, and cancer biology have all participated. Eighteen graduates are currently holding faculty positions in academic hospitals or research institutions, both in Canada and Europe; thereby, achieving EIRR21’s vision in building research capacity.

This year’s EIRR21 Research Day took place on Tuesday June 15, 2010, wherein the international Scientific Advisory Board (SAB), comprising of Dr. Jim Woodgett (Director of the Samuel Lunenfeld Research Institute), Professor Gillies McKenna (Director of the Institute for Radiation Biology Research at Oxford University), and Dr. Paul DeLuca (Provost of the University of Wisconsin), reviewed the EIRR21 program, and provided constructive critiques for continuous improvement.

One of the most innovative aspects of this year’s EIRR21 Research Day was the collaboration with Professor Brian Silverman from the Rotman School of Management, whose MBA students worked with EIRR21 trainees in three teams to compete for the “EIRR21 Cup”. This Cup was awarded to the team with the most compelling scientific proposal, reasonable business plan, and the most effective communication strategy to get a wealthy donor to invest in their research idea, while addressing this year’s thematic challenge of “How to treat the lymphedema that develops in breast cancer patients after therapy?” Each team also presented their project at the Annual Research Day to the EIRR21 SAB, as well as external judges, Mr. Paul Alofs (CEO of PMH Foundation) and Dr. Brian Silverman (Rotman). The

winning team, led by Dr. Mark Pereira (PDF; pharmaceutical sciences), included Andrew Alexander (PhD; clinical physics), Christian Bassi (PhD; molecular biology), Iwa Kong (MD; radiation oncology), Minalini Lakshman (PDF; molecular biology), Priscilla Lau (PhD; molecular biology), and Kelly Stewart (PhD; pharmaceutical sciences), as well as three Rotman collaborators. A reception following the event was attended by Drs. Robert Bell (CEO & President, UHN), Avrum Gotlieb, and Ben Neel (Director, Ontario Cancer Institute), along with the SAB, EIRR21 faculty and trainees, and Industry representatives from GSK. For next year, EIRR21 will do something different, yet again. Stay tuned!



## **Medical Education**

### **Undergraduate Medical Education**

Program Director: Dr. May Tsao

Associate Program Director: Dr. Joyce Nyhof-Young

#### *Introduction*

The UT DRO not only supports the Faculty of Medicine Undergraduate Medical Education curriculum, it is also committed to support the needs of individual medical students throughout the country and abroad as they seek knowledge and experiences in Radiation Oncology. These experiences are primarily offered as electives, observerships and research attachments.

#### *Structure of program*

The Department of Radiation Oncology continued to provide teaching to pre-clerkship (years 1 and 2) and clerkship (years 3 and 4) medical students. Pre-clerkship teaching included teaching students in the Determinants of Community Health (DOCH) II course and providing lectures and seminars for the Pathobiology of Disease course.

Beginning in the academic year 2010-2011, the University of Toronto Undergraduate Medical Education curriculum eliminated Year 3 electives.

In 2011-2012, year 4 students will be required to complete 12 weeks of electives. Beginning in January 2012, there will be an opportunity for medical students to choose a radiation oncology selective as part of the Transition to Residency Selective program in the undergraduate medical education curriculum. Student activities for the selective in radiation oncology include learning about the principles of radiation oncology, participating in the assessment of new patients, follow-up patients and patients undergoing radiation planning and treatment.

During the academic year (2010-2011), 4 University of Toronto elective students, 26 North American visiting elective students, 3 international elective students, 10 Ambulatory Community Experience (ACE) students and 6 Ivan Smith Scholarship awardees rotated through the Department of Radiation Oncology clinical practices at both Odette Cancer Centre (OCC) and Princess Margaret Hospital (PMH).

#### *Special activity this year*

An orientation package for undergraduate medical students rotating through PMH and OCC is in the final process of development and implementation.

At the end of April 2011, we said good-bye to Dr. Joyce Nyhof-Young who has taken on the new position of Curriculum Evaluation Coordinator at the University of Toronto, Undergraduate Medical Education Program. We thank Dr. Nyhof-Young for her dynamic contributions to the undergraduate medical education program at University of Toronto, Department of Radiation Oncology and we wish her well in her future endeavors.

## **Postgraduate Medical Education**

### **Residency Program in Radiation Oncology Physics**

Program Director: Dr. Jean-Pierre Bissonnette

Site Coordinators: Dr. Jean-Pierre Bissonnette (PMH); Dr. Milton Woo (OCC); Dr. Katharina Sixel, (DRCC)

#### *Introduction*

The Toronto Residency Program in Radiation Oncology Physics is an intensive two-year practical training program that prepares students to become future leaders in medical physics. Through clinical rotations, a research project in clinical physics and educational components, students are equipped with fundamental knowledge of the disciplines of radiation oncology and radiation therapy. Physics Residents learn to recognize, understand, and address scientific, clinical, and technical problems by working directly with experienced radiation oncologists, radiation therapists and medical physicists.

The Residency Program in Radiation Oncology Physics started in July 2007 by combining existing long-standing medical physics residency programs at the Princess Margaret Hospital and Sunnybrook Health Sciences Centre - Odette Cancer Centre. The goal of the joint program is to produce highly competent medical physicists who combine a comprehensive understanding of clinical radiation physics and specific knowledge of radiation therapy and radiation oncology principles and practice with enhanced leadership, research and teaching skills. On March 10, 2008, the program was accredited to the maximum of 3 years through the Committee on Accreditation of Medical Physics Education Programs (CAMPEP).

The program had nine Physics Residents in 2010-2011; currently enrolled are (expected graduation date in parenthesis): John Bracken (September, 2011), Huan Yu (September, 2011), Matthew Wronski (September, 2011), Robert Weersink (September, 2011), Roxana Vlad (September, 2011), Claudia Leavens (December 2011), Michael Lamey (January, 2012), Ali Fatemi (September 2012) and Anthony Kim (December 2012).

#### *Structure of the Program*

Entry requirements and updated program policies and procedures are posted [here](#). The program accepts applications from qualified and highly motivated candidates with a post-graduate degree in medical physics or a related discipline. As of this writing, our CAMPEP accreditation is restricting entrance criteria; candidates graduating from non-accredited medical physics programs are allowed to make up for up to 4 courses during residency. In 2012, only 2 courses will be allowed to be made up during residency. It is uncertain how this policy will change afterwards.

The minimum program length is 2 years and includes a mix of didactic courses, clinical rotations and clinical projects. Each resident is assigned a mentor who acts as a guide throughout the program. During the first year, the residents have didactic training in Radiation Biology, Radiation Safety, Clinical Radiation Physics and Dosimetry and the Principles of Treatment Planning. Residents who already hold credit for these courses are exempted from enrolling during residency. There are rotations in Instrumentation, Treatment Planning and Quality Management. In the second year there are rotations in Brachytherapy and Imaging Physics, Advanced Treatment Planning and a continuation of Quality Management. One distinguishing feature of the program is that residents interact with a multidisciplinary environment involving radiation oncologists and radiation therapists during parts the Academic Block, the

Applied Physics tutorials and the Interdisciplinary Rotation that follows specific patients from first clinic to treatment.

#### *Evaluation*

Resident knowledge is evaluated at regular, topical resident question and answer sessions based upon the program syllabus. Comprehensive oral examinations are held at the end of each academic year; successful candidates to the final oral exam are considered to have fulfilled all program requirements, and may be sponsored for the Ontario Review A oral examination organized by a standing provincial committee of Cancer Care Ontario. Drs. Jean-Pierre Bissonnette and Katharina Sixel are members of the standing Review A examination committee.

In 2010-2011, three residents (Daria Comsa, Mark Ruschin, and Ananth Ravi) successfully challenged their Review A exams. All are now gainfully employed.

#### *Academic output*

Throughout the 2-year program the resident is expected to work one or more clinical physics projects under the supervision of a staff medical physicist. The results of this work were published in peer-reviewed journals or presented at the UT DRO Research Day or at the meetings of professional organizations.

Physics residents published twenty peer-reviewed papers, and nine others were in preparation. 25 abstracts were submitted to national or international conferences.

#### *Special activity this year*

In 2011, the program commenced an affiliation process with the Credit Valley Hospital, leading to ten resident positions for 2011-2012.

## Postgraduate Medical Education

### Radiation Oncology Residency Training Program

Program Director: Dr. Barbara-Ann Millar

Associate Program Director: Dr. Ida Ackerman/Dr. Patrick Cheung

Associate Program Director and Director Resident Research: Dr. Rebecca Wong

#### *Introduction*

The Radiation Oncology Residency Training Program is a five year CaRMS entry specialty training program fully accredited by the RCPSC. The goal of this radiation oncology program is to produce the academic clinical leadership of the future.

#### *Participants*

Currently enrolled trainees include: 24

##### PGY1

FotouhiGhiam, Alireza  
Glick, Daniel  
Klein, Jonathan  
Livergant, Jonathan  
Tseng, Chia-Lin (Eric)

##### PGY2

Alfaraj, Fatima  
Kurtz, Goldie  
Shahid, Negin  
Skliarenko, Julia

##### PGY3

Barrett, Kate  
Chiang, Andrew  
Conrad, Tatiana  
Hong, Eugene  
Khan, Luluel

##### PGY4

AlDuhaiby, Eman  
Caissie, Amanda  
Giuliani, Meredith  
Leung, Eric  
Marchand, Eve-Lyne  
Mohammed, Fazilat

##### PGY5

Al-Omair, Ameen  
Chan, Elisa  
Ishkanian, Adrian

#### *Structure of program*

The residency training program is comprised of a series of clinical attachments primarily at two fully affiliated teaching hospitals associated with the University of Toronto, Department of Radiation Oncology (UT DRO). The Princess Margaret Hospital at the University Health Network and the Odette Cancer Centre at The Sunnybrook Health Sciences Centre. PGY1 and PGY2 are primarily off service rotations. The trainees get six months exposure to radiation oncology in their PGY2. Residents can also elect to do up to 6 months of research training as part of the program. The clinical program is supplemented by a rich academic milieu of rounds, tumour boards, case conferences and visiting professorships at both institutions.

The clinical program is supplemented by formal teaching sessions and courses. The Academic Block during the PGY1, includes seven modules. The Fundamentals of Medical Physics, Fundamentals of Radiobiology, Introduction to Clinical Oncology, Research Methods – which includes indepth Biosstatistics, CanMEDS, Introduction to Radiation Therapy & Planning Systems and a Junior Anatomy course. The Fundamentals of Radiobiology Course, was developed under the leadership of Dr. Bradley Wouters, Dr. Robert Bristow and Dr. Anthony Brade and is now offered in a condensed format. Distinguished Professor Dr. Michael Joiner attended as visiting faculty for the 2011 course.

The leadership for coordination and redesign of resident academic half day has been undertaken by Dr. Drew Hope. Academic half day now incorporates resident and faculty collaboration in teaching on core oncological topics as well as junior and senior resident treatment planning drills.

Other courses include PGY3 Applied Physics course and PGY4 - 5 Anatomy course. The residents are fortunate to have specific “meet the professor” sessions with visiting faculty such as Dr. Gill Duchenne and Dr. Robert Copps in 2011.

#### Evaluations

- Written examinations in physics and radiobiology in PGY1
- Mini Research Presentation evaluated by faculty Director of Resident Research during the academic block in PGY1
- OSCE's in PGY2/PGY3
- Clinical Applied Physics Examination in PGY3.
- Treatment planning drills in PGY3 to PGY5 weekly during academic half days
- Radiation Treatment Planning Competency Examinations in PGY4 and PGY5
- Royal College Fellowship Certification Examinations in the spring of PGY5
- Bi-annual review of resident evaluations and progress in the program

#### *Academic output*

Radiation Oncology Residents presented their research at the UT DRO Research Day on May 7, 2011. There were 27 abstracts submitted for peer review by our physics & radiation oncology residents and fellows. The trainees presented 15 Orals and 12 posters at this year's event. Dr. Todd Pawlicki, Director of Medical Physics and Clinical Operations was invited as keynote speaker. Out of the 7 Radiation Oncology residents that submitted abstracts, 4 presented oral presentation and 3 presented posters.

In addition, radiation oncology residents published 9 papers, submitted 18 abstracts, received 2 oral presentations and 11 poster presentations in major national and international conferences such as CARO, ASTRO, ASCO, MASCC, AACR and MASCC.

#### *Academic Awards*

From UT DRO Research Day event, Dr. Eric Leung, won the W.J. Simpson Award for Academic Excellence in Research by a Resident, Supervisor by Dr. Milosevic and Dr. Hill.

Meredith Giuliani won the following awards:

- Best Poster for a Postgraduate Trainee in Research, supervisors were Dr. Lindsay and Dr. Hope.
- Ellen Epstein Rykov Memorial Prize for excellence in postgraduate research, University of Toronto, supervisor Dr. Andrew Hope
- Timeposters Fellowship for excellence in postgraduate research, University of Toronto, supervisor Dr. Andrew Hope
- Joseph M. West Family Memorial Fund for excellence in postgraduate research, University of Toronto, supervisor Dr. Andrew Hope

- OICR Fellowship Grant for 13th Joint ECCO-AACR-EORTC-ESMO Workshop ' Methods in Clinical Cancer Research, Waldhaus Flims, Switzerland, supervisor Dr. John Kim and John Waldron

The residents awarded the annual clinical teaching award for 2011 to Dr. Patrick Cheung and the annual academic half day teaching award to Dr. Gerard Morton.

New this year, the Residents presented an Award for Excellence in Clinical Teaching by a Fellow to Dr. Louis Lao

Drs. Ameen Al-Omar, Elisa Chan and Adrian Ishkanian were congratulated on completing training in Radiation oncology and on achieving their Royal College Fellowships in Radiation Oncology.

## **Radiation Oncology Fellowship Program**

Program Director: Dr. Charles Catton

### *Introduction*

The UT DRO Fellowship Program is one of the largest and most successful radiation oncology fellowship programs in North America, attracting excellent candidates from around the world. It has three streams: a one-year Clinical Research Program; a one year Clinical Experiential Program and a two-year Research program. During the one-year Clinical Research Program, fellows acquire clinical expertise in one or two radiation oncology disease sites and complete a research project. The one-year Clinical Experiential Program is similar, except for a greater emphasis on clinical activities. The two-year Research Fellowship Program emphasizes training in the principles and conduct of scientific research. Fellows earn advanced degrees in a relevant department at the School of Graduate Studies at UT.

### *Participants*

#### **2010-2011 Fellows, Supervisor(s) and Country of Origin**

<b>Fellow</b>	<b>Clinical and Research Supervisors</b>	<b>Country</b>
Dr Zishan Allibhai	Dr A Bezjak	Canada
Dr Alexis Bujold	Dr L Dawson	Canada
Dr Andrew Chan	Drs Waldron, O'Sullivan, Kim, Hope, Dawson	UK
Dr Albert Edwards	Drs Waldron, O'Sullivan, Kim, Hope, Dawson	UK
Dr Victoria Ford	Drs A Bezjak, J Cho	UK
Dr Doug Iupati	Dr C Menard, S Elantholiparameswaran	New Zealand
Dr Meredith Johnston	Drs Waldron, O'Sullivan, Kim, Hope, Dawson	Australia
Dr Sharlyn Kang	Drs J Kim, R Wong	Australia
Dr Su Woon Kim	Drs A Hope, A Bezjak	UK
Dr Louis Lao	Drs Gospodarowicz, Tsang, Brierley	New Zealand
Dr Laurence Masson-Cote	Drs Laperriere, Sahgal, Millar	Canada
Dr Laura Masucci	Drs Menard, Laperriere, Millar	Canada
Dr Gary Mok	Drs C Catton, P Warde	Canada
Dr Marita Morgia	Drs Fyles, Milosevic	Australia

Dr Nichola Naidoo	Dr R Wong	New Zealand
Dr Brandon Nguyen	Dr C Menard, S Elantholiparameswaran	Australia
Dr Paula McCloskey	Drs A Bezjak, J Waldron	UK
Dr Ananad Swaminath	Drs A Bezjak, L Dawson	Canada
Dr John Thoms	Dr R Bristow	Canada
Dr Albert Tiong	Drs Waldron, O'Sullivan, Kim, Hope, Dawson	Australia
Dr Minako Uchino	Dr P Catton	Japan
Dr Lorraine Walsh	Drs Fyles, Milosevic	Ireland
Dr Philip Wong	Drs C Catton, FF Liu	Canada
Dr Kristopher Dennis	Drs E Chow, M Tsao	Canada
Dr Iwa Kong	Dr E Rakovitch	Canada
Dr Duc Le	Dr G Morton	Canada
Dr Hany Soliman	Drs S Wong, G Czarnota, G Stanicz	Canada

### *Structure of the Program*

Fellows spend one or two years in a Research Fellowship or a Clinical Research Fellowship at either the Princess Margaret Cancer Program or the Sunnybrook Health Sciences Centre - Odette Cancer Centre. The foundation of the Research Fellowship stream is formal graduate training at a masters or doctoral level and requires the fellow to be accepted into graduate school. Fellows who already hold an MSc degree or higher may participate in the 2-year program without re-applying to graduate school. The UT DRO has developed a RO stream within the Institute of Medical Science as well as associations with the Departments of Medical Biophysics and Health Policy Management and Evaluation and the Ontario Institute for Studies in Education though UT DRO faculty cross-appointments. The foundation of the Clinical Research Fellowship stream is practice-based experience and research supervision in the clinical and translational academic programs of the Department.

This past year 27 fellows were involved in the Fellowship program at both sites, from Australia (5); Canada (12); Ireland (1); Japan (1); New Zealand (3); UK (5).

### *Academic output*

Dr Philip Wong won a very prestigious 2011 ASCO Young Investigator Award.  
Dr Karen Lim won the IMS Whiteside Award for her MSc Thesis dissertation.

### *Quality measures*

Abstracts accepted: 45  
Manuscripts published July 2010-May 2011: 17  
Grants: PI (n=3) \$285,000  
Awards: 2  
1 ASCO Young Investigators Award  
1 Whiteside Award

## **Continuing Education**

### *Highlights*

This has been a very active and productive year for UT DRO CE activities. There has been a focus on improving collaborations and developing infrastructure to increase the reach and efficiency of our programs. The UT DRO CE office has built on its web platform and registration process. In addition, we have worked closely with the radiation medicine programs at Princess Margaret and Odette Cancer Centre to provide monthly joint rounds. The CE office has continued collaborative work with Cancer Care Ontario to host the Target Insight meeting, focused on the utilization of services and issues around access. In addition, the CE office continues to work closely with the UT DRO CE office on its 2010/2011 strategic planning process.

### *Leadership*

The Departmental CE activities were led by individual course directors, with oversight provided by David Wiljer. In addition, the CE Committee provided strategic direction throughout the 2010/11 year.

### *CE Committee Members*

David Wiljer, Chair  
Ida Ackerman  
Amanda Bolderston  
Annemarie Butler  
Nicole Harnett  
Mary Hooey  
Doug Moseley  
Fei-Fei Liu  
Michael Sharpe  
Effie Slapnicar  
Brad Wouters

The CE committee has met regularly this year and includes all of the Course Directors as well as representatives from each of the core radiation medicine disciplines. The CE Committee convened 2 times this academic year: 1) November 11 2010; 3) April 29, 2011.

The focus of the committee work was to identify common infrastructure required for CE, set strategic directions and foster productive and active partnerships.

## **CEI<sup>3</sup> Core Curriculum**

The UT DRO CEI<sup>3</sup> is made up of a curriculum comprised of a fixed core of annual elements including UT DRO Rounds, Target Insight and the Radiation Therapy Conference, Inspire, Inquire and Innovate (RTI<sup>3</sup>), in addition to a variable program hosted by UT DRO faculty. Each program element has a Course Director, an inter-professional program and planning committee, is based on educational needs, is eligible for CE credits, intends to achieve an international profile and innovative elements, and is evaluated by standard educational criteria.



### **RTi3: Radiation Therapy Conference, Inspire, Inquire, Innovate:**

March 4<sup>th</sup> and 5<sup>th</sup> 2011, Chestnut Conference Centre, Toronto

Course Directors: Amanda Bolderston and Tara Rosewall

This year the conference was again located at the Chestnut Conference Centre. The eighth Toronto conference was the first to feature two full days on Friday and Saturday. This expanded program allowed for a broader spectrum of topics, with a wider variety of educational modalities such as teaching sessions, lunch time discussions and practice sharing sessions as well as the usual workshops, podium and poster presentations. This year's conference was highly successful, both in terms of increased registrations, the quality of the program and sponsorship.

#### *Program goals were:*

1. To disseminate the latest evidence in radiation therapy to inform and stimulate clinical practice
2. To provide learning opportunities for practitioners to update their clinical skills
3. To facilitate networking and communication and the development of professional communities of practice

Our keynote speakers this year were Hans Paul van der Laan (a radiation therapist researcher from University Medical Center Groningen Netherlands), "Optimizing CT guided radiotherapy for breast cancer", Robert Adams (a radiation therapist educator University of North Carolina Department of Radiation Oncology, US) "Radiation therapists' emerging roles in the creation of knowledge", Coleen Dickie (research therapist, RMP) "From the 'CollAmy' to the 'RT-6060 / T-Form Extremity Immobilizer System'" and David Hodgson (radiation oncologist, UTDRO/RMP) "Towards personalized medicine for young cancer patients: Modifying treatment for an uncomplicated cure".

Conference workshops, focusing on Reflection and Portfolios and Starting Research, were presented in trans-Atlantic collaboration with Sheffield Hallam University (SHU) in the UK. SHU has a strong reputation for excellence in radiation therapy education and research. RTi3 will have a presence at the SHU conference in October, where we will be presenting a workshop and we hope to generate significant international interest in RTi3 2011. Interprofessional keynote speakers this year were from the UK, Toronto and the US, Dr. Heidi Probst, Beth Kapusta and Dr. Darryl Nazareth. The scientific program included the results of research performed by radiation therapists into organ motion management, professional practice and clinical outcomes, as well as student and inter-professional education.

Abstract submission award winners this year were:

**Best Podium Presentation:** Graham Smith, University of Toronto/Michener Institute

Title: Can deformable registration improve efficiency in adaptive radiation therapy treatment planning for head and neck cancer patients?

**Best Poster Presentation:** Cindy Tran, University of Toronto/Michener Institute

Title: An evaluation of the usability and usefulness of a multi-language online patient education module: a pilot study

#### **Top rated abstracts:**

Inspire: Lisa DiProspero, Odette Cancer Centre.

Title: What your peers think: Faculty perspectives with incorporating peer assessments as part of the teaching and learning for mandatory simulation sessions of the clinical practicum course.

Inquire: Grace Lee, Radiation Medicine Program, University Health Network

Title: Assessing the concordance in patient assessments between a breast site clinical specialist radiation therapist and radiation oncologist in weekly treatment reviews”

Innovate: Carrie Schultz, Juravinski Cancer Centre

Title: The future of brain tumour treatment is now: Clinical application of the CyberKnife system

The planning committee consisted of Tara Rosewall, Research Chair, Amanda Bolderston, Program Chair, Jane Higgins, Lisa DiProspero, Effie Slapnicar, David Wiljer.

## Evaluations

95% of participants stated that they would recommend the conference to their colleagues and 75% of the respondents agreed that they would attend next year.

## Comments included:

“I was very impressed with this conference ... I liked that everyone was so passionate about their job and research, and the subjects were relevant and intriguing”

“I have already recommended this conference to all the other students in my program. It was very eye opening to see all of the research being carried out by other therapists and the possibilities out there. I left this event inspired.”

## **IMRT Insight: On Target, On Track**

May 26-27, 2011, Metropolitan Hotel, Toronto

Course Directors: Michael Milosevic and Michael Sharpe

This meeting will explore the use of image-guided intensity modulated radiation treatment (IMRT) in relation to three important and related themes that impact our ability as radiation treatment professionals to influence the burden of cancer suffering:

- optimal utilization of radiotherapy, so that those who need treatment receive it in a timely manner
- radiotherapy quality and safety, so that patients always receive the best possible treatment
- accurate radiotherapy planning and delivery, so that the treatment is always directed to the right location

“On Target, On Track” highlights the importance of working towards radiotherapy utilization targets, establishing compliance targets for important quality indicators and enhancing the identification of tumour targets using state-of-the-art imaging.

This meeting, now in its fifth year, is a partnership between the University of Toronto Department of Radiation Oncology and Cancer Care Ontario and will explore the question of whether or not Ontario is on track in the adoption of technologies, guidelines and best practices to provide effective and safe treatment to all who might benefit.

The program addresses practical issues related to the utilization of current and emergent radiation therapy technologies, as well as current research and future directions. This 2 day program is anchored by 2 distinguished keynote speakers: Jerry Battista, Head, Division of Radiation Oncology, University of Western Ontario and Lawrence Marks, Professor and Chair, Department of Radiation Oncology, University of North Carolina at Chapel Hill.

The planning committee consisted of Michael Milosevic (Co-Chair), Michael Sharpe (Co-Chair) Ida Ackerman, Patrick Cheung, Eric Gutierrez, Nicole Harnett, Mary Hooey, Elizabeth Murray, Effie Slapnicar and David Wiljer

## **Advanced Education Program**

The Accelerated Education Program is *putting innovation to work* through educational programs dedicated to promote essential aspects for clinical care: 1) the integration of emerging technologies; 2) the creation of innovative workplace models; 3) using research findings to improve practice. The Accelerated Education Program (AEP) is a unique partnership between the Department of Radiation Oncology and the Radiation Medicine Program at Princess Margaret Hospital / University Health Network that creates learning environments that are engaging, creative and interactive. The focus is on interdisciplinary activities that enhance team-work and collaboration. The goal of the program is to deliver timely, relevant and excellent programming of interest to all radiation medicine professionals.

*Currently, the AEP Program has two major offerings: the IGRT and the IMRT Courses*

## **IGRT Education Course**

Course Directors: Nicole Harnett, Pamela Catton, David Jaffray

The Foundations IGRT Education Course has run twice this year, with a total of 55 participants. It continues to be relevant and well-received, and talks and practical exercises are continually revised to reflect changing technology, changing practice, new data and changing needs of participants. The Course is frequently engaging new faculty members of all disciplines to teach in the Course, allowing them to develop their presentation skills and to interact with external participants.

The first specialized course module – the Lung IGRT Education Course - was developed and run February 10-12<sup>th</sup>, 2011, with 27 participants. While a selection of talks from the original (Foundations) Course still provided essential content to the new course, many were newly-developed to address issues more specific to lung radiotherapy. Dr Jan Jakob Sonke, an internationally respected medical physicist from NKI in the Netherlands was the guest faculty member for this course providing an external perspective as well as experience from the research domain.

Course evaluation continues to be undertaken for faculty, curriculum, and application to practice, and results are consistently very positive.

### **IMRT Education Course**

Course Directors: Nicole Harnett and Michael Sharpe

As special edition of this IMRT Course was delivered for Cancer Care Ontario in response to demand in the province and to help them meet a variety of provincial objectives related to IMRT implementation. This additional course was delivered on November 26 and 27<sup>th</sup>. The 2-day course was attended by 32 radiation medicine professionals from around the province.

### **UTDRO Rounds in collaboration with RMP and OCC**

Coordinator: Drs. Lee Manchul and David Wiljer

UTDRO Rounds are delivered monthly and include joint Rounds with the radiation programs at PMH and Odette. This new format allowed us to expand the opportunities to share work and meet on a monthly basis. The new format includes video conferencing at both locations to promote collaboration and improve access to the events.

The UTDRO Rounds included:

**Richard Tsang.** What is Special and New About Extranodal Marginal Zone Lymphomas. September 30<sup>th</sup>, 2010.

**Grace Lee, Kitty Chan.** MRT(T) Research Bites. November 25<sup>th</sup>, 2010.

**James Wright, Veronique Benk (Visiting Professor).** Trials & Tribulations” The Challenges of Clinical Research. December 14<sup>th</sup>, 2010.

**Douglas Moseley, Winnie Li.** PMH IGRT Program Review – “between Scylla and Charybdis”. January 27<sup>th</sup>, 2011.

**Lisa Barbera.** Symptom Burden and Performance Status in a Population-based Cohort of Amulatory Cancer Patients: What are we Learning from Collecting ESAS and PPS Scores? February 24<sup>th</sup>, 2011.

**Richard Potter (Visiting Professor).** Image Guided Adaptive Brachytherapy in Cervix Cancer. March 24<sup>th</sup>, 2011.

**Andrew Loblaw.** The Value of Biological Dose Escalation in Prostate Cancer. April 28<sup>th</sup>, 2011.

**Robert Dinniwell.** May 26<sup>th</sup>, 2011.

**Eileen Rakovitch.** June 23<sup>rd</sup>, 2011.

### **Other Continuing Education Activities**

#### *CE Publications*

Gillan C, Lovrics E, Halpern E, Wiljer D, & Harnett N. The evaluation of learner outcomes in interprofessional continuing education: a literature review & analysis of survey instruments. *Medical Teacher*, 2011 [in press].

### **UT DRO Faculty in Continuing Education Leadership**

The UT DRO Director is playing an active role in the University of Toronto CE Office, attending the monthly CE Leadership Meeting as well as the Research in Continuing Education (RICE) quarterly meetings.

#### *Leadership Positions*

Pamela Catton, Member, Scientific Committee, Toronto Cancer Conference

Lee Manchul, Chair, UT Faculty Council Continuing Education and Professional Development Committee

Lee Manchul, Co-Chair, Awards Committee, Continuing Education and Professional Development

Lee Manchul, Chair, CME Section, Northeast Group on Educational Affairs, Association of American Medical Colleges

David Wiljer, Vice-President, American Association of Cancer Education

## Medical Radiation Sciences Program

Academic Director: Dr. Pamela Catton

Academic Coordinator: Cathryne Palmer

The undergraduate Medical Radiation Sciences (MRS) Program is a second-entry joint BSc/Diploma of health professional education program offered by UT DRO and the Michener Institute. This four year interprofessional degree is offered in three calendar years and is comprised of didactic, simulated and clinical courses. Three discipline specific streams are offered: Radiation Therapy, Radiological Technology, and Nuclear Medicine Technology. There were 375 students registered in 2010-2011. The MRS Program prepares students for tomorrow's professional practice, for future leadership roles and to pursue advanced graduate degrees.

### *Participants*

#### **2010-2011 MRS Students**

Acheson , Stephanie	Bilal, Ahmad	Chen, Chun-Lin
Adam, Abdirahim	Bodnar, Calli	Chen, Duoduo
Adams, Alexander Laurie	Bodnarchuk, Kevin	Chen, Feng
Aidan	Boghozian, Ramon	Chen, Susan
Adem, Finte	Bola, Rupinder	Cheng, Eric
Ahmed, Sabreena	Borges, Noah	Cheng, Teresa Yee-Ting
Aiyenimelo, Olugbenga	Bourque, Jennifer Ruth	Cheung, Hannah
Ajodha, Shannon	Bowen, Andre	Chiu, Mondie
Ali, Ayan Osman	Breeze, Carole	Cho, Joon Ho
Allanigue, Gayle Andriette	Brothers, Nadine	Choi, Yenjeung
Allen, Kevin	Bryant, Kirsten	Chow, Anna
Alsaffar, Nael	Bukhari, Sidra	Chow, Raymond Seong Jun
Andani, Salmaan	Burgess, Amy Marie	Chow, Steven Aung Myo
Anderson, Charlene	Butnar, Stefania Florica	Chu, Anna On-San
Anwari, Vahid	Callan, Ryan	Chu, Rosa Lok-San
Arif, Imran	Chai, Yun Ho	Chui, Derek
Arrosa, Sebastian	Challiwala, Asma	Chung, Grace
Au, Calvin Ka Kwan	Chan, Edward Yau-Cheong	Chung, Jae Min
Auciello, Danielle	Chan, Elena	Chung, Lawrence Siu Fai
Aulakh, Mehma	Chan, He	Cieciewicz, Claudia
Azeez, Kamal	Chan, Jenny Hoi Yan	Cioata, Emilie
Aziz, Sundus,	Chan, Kai	Clark, Sandra
Ban, Leann	Chan, Queenie Kwan Mei	Coelho, Ruvette Delia
Barrera-Arbelaez, Luis Miguel	Chan, Selig	Colantonio, Adam David
Barrett, Stephenie	Chan, Tammy	Cole, Colin
Barrette, Justin	Chandrarajan, Shaline	Cooke, Anne
Baxter, Annie Bo Peng	Chang, Wing Hei Janet	Courtland, Daniel
Beda, Kevin Andrew	Chau, Jessica	Cox, Kimberly
Bell, Jennifer-Lynn	Chaudhry, Hamza	Crowe, Brandon
Bian, Lingjun	Chaudry, Shafa Anwar	Croy, Charles Alexander
Biernaski, Heather	Chee Hing, Stefanie K	Cruz, Christopher Kyle

Cumal, Aaron Angelo  
 Da Silva, Alisha  
 Dhesi, Dilpreet Kaur  
 Divadalage, Nisal Chamika  
 Do, Hong-Duc  
 Doyle, Ashley  
 Doyle, Erica Kristen  
 Dufault, David  
 Duong, Sandra-Mac  
 Effendi, Melanie  
 Elliott, Elizabeth  
 Espinoza, Frank  
 Etwaroo, Davana  
 Ezati, Parissa  
 Famiyeh, Fidelia  
 Fan, Ji Ming  
 Fernandes, Anthony  
 Fong, Angela Ai Chen  
 Forster, Alison  
 Fragale, Matthew  
 Fung, Calvin  
 Fung, Lydia  
 Gacek, Tomasz  
 Galapin, Madette Ravi Julianne  
 Galeano, Angelica  
 Gandhi, Riddhi  
 Gandhi, Shalmali  
 Ganesh, Tameshwar  
 Gareri, Sara  
 Garofolo, Mikki  
 Ghayas, Nasheeta  
 Ghazi, Sana Muhammad Azhar  
 Gheorghita, Albert Razvan  
 Ghide, Luwam  
 Giovinazzo, Michael  
 Gopee-Ramanan, Prassanthan  
 Grewal, Kirandeep  
 Haden, Kristin  
 Hamed, Eman  
 Hanna, Mena  
 Hashmi, Fatima  
 Hawes, Jennifer Brianne  
 Hazell, Ryan  
 Heywood, Aishah Meghann  
 Hoang, Thao  
 Hong, Victor  
 Hospattankar, Roshan  
 Hsiung, Li Wen  
 Hsu, Kenneth

Huang, Lily Yi Ying  
 Hui, Michael  
 Hum, Stephanie  
 Hung, Pinky Cho Ying  
 Hussain, Faiza Mohammad  
 Javaid  
 Hussain, Syed Abid  
 Ibrahim, Nevin  
 Icasiano, Amanda  
 Irwin, Kaitlyn  
 Iyer, Kartik  
 Jackson, Scott  
 Jama, Ali  
 Javed, Samina  
 Jong, Anthony K  
 Kabatoff, Amanda  
 Kam, Melissa  
 Kangas, Jessica  
 Kapoor, Dhreeti  
 Kawamoto, Erena  
 Keddle, Louise  
 Keh, Eirene Megan  
 Kelly, Sara Lynn Holly  
 Keshwah, Rachel Naomi  
 Alexis  
 Khalfan, Fatima Zahra  
 Khalid, Yasir  
 Khan, Abdul-Hameed  
 Kim, Jung Eun  
 Kim, Sara  
 Kim, Suyeon  
 Komal, Teesha  
 Kong, Franco  
 Koskinen, Jason  
 Krishnakulasingham, Yasietha  
 Kwan, Derrick Lee Ho  
 Lalonde, Lisa  
 Lam, Angie  
 Lanh, Nixon  
 Lao, Helen  
 Laviola, Michael  
 Lee, Ivy  
 Lee, Joan  
 Lee, Ka Yee Karen  
 Lee, Ming Hon Eric  
 Leneve, Kevin  
 Lesani-Abdi, Naghmeh  
 Leung, Wilson Chung-Hon  
 Li, Karla

Li, Veny Yunn  
 Li, Yan  
 Li, Ying  
 Liang, Eddie  
 Liao, Kevin  
 Lin, Chin-Hsu  
 Lin, Qi  
 Linay, Jarred  
 Lindsay, Irene  
 Ling, Kelvin Kar Fai  
 Ling, Kuok Yi  
 Liu, Chloe  
 Liu, Fanfan  
 Liu, Lu  
 Liu, Pingzi  
 Liu Xun  
 Lui, Alvin  
 Luu, Crystal Pui San  
 Ly, Jennifer  
 Ly, Nguyet Nga  
 Lynch, Briana  
 Ma, He  
 Ma, Kai  
 Mac, Sandra May  
 Macaulay, Robyn Lucy  
 MacKay, Nicole  
 Mackillop, Laura  
 MacPherson, Kristina  
 Macumber, Stephen  
 Mak, Jonathan Kenneth  
 Malik, Mehreen  
 Man, Shei-Yee  
 Marchand, Joshua  
 Martis, Julian Cedric  
 Mashintsova, Marina  
 Mattonen, Sarah Ashley  
 Mccart, Jessica  
 Mcconnell, Kristie  
 Michie, Caitria  
 Mills, Hayley  
 Misaka, Cristiane Yukie  
 Mistry, Dipan  
 Mistry, Rakeshbhai  
 Mohamed, Sabena  
 Mohamed Ibrahim, Shukri  
 Mohla, Rahul  
 Mok, Lillian Man-Lai  
 Mok, Susan  
 Morrison, Christine

Morrison, Felicia  
Motha, Tasneembanu  
Mottershead, Megan  
Moy, Jenny  
Muca, Denisa  
Muhammad, Autif  
Munir, Aneela  
Murphy, Kristina Robyn  
Nadeem, Kashif  
Naugle, Shaun Cameron  
Nelli, Stephen Anthony  
Gabriel  
Ng, Christopher  
Ng, Jennifer Kar-Yee  
Nguyen, Jenny  
Nowak, Daniella  
Nurse, Allison  
Nwabughuogu, Chinedu  
Olmstead, Craig  
Omar, Sara  
Padiachy, Melanie  
Pai, Anushka  
Park, Yoon Kyung  
Patel, Anisha  
Patel, Dhara  
Patel, Ekta  
Patel, Nisharg  
Patel, Simitkumar  
Pau, Alexander  
Paul, Jaysree  
Peden, Lisa  
Peters, Lisa  
Pham-Chau, Amy  
Philbrick, Alicia  
Phull, Nina  
Pineda, Danilo Suarez  
Power, Kaitlyn Marie  
Prisciak, Erin  
Qadir, Saira Anam  
Quaasalmy, Mikhael  
Quach, Antonia  
Quinn, Patrick  
Rajathurai, Janani  
Ramadani, Odeta  
Ramezani, Zohreh  
Rankin, Zena Alexandra  
Raveendran, Sinduja

Ravi, Raja  
Reinhart, Rebecca  
Ruddy, Christopher  
Rudra, Viraj Kanishka  
Sadikali, Zahir  
Salonga, Rose-Anne  
Sarju, Linda Chandra  
Satkunanathan, Praveenan  
Savelberg, Mary Lillian  
Katherine  
Shaikh, Muhammad  
Shin, Jee Hae Rebekah  
Sidhu, Raajan  
Silverberg, Lindsay  
Sinnesael, Kendra  
Sirisegaram, Abby  
Smith, Graham  
Smith, Julie Allison  
Smith, Mackenzie  
Song, Anny Szu-Ying  
Soulliere, Amie  
Steeves, Katrina  
Su, Helen  
Sulistijo, Andrew  
Sundaram, Athyrai  
Taher, Mohammad  
Tam, Henry  
Tam, Michael Ka Chun  
Tan, Josephine  
Tariq, Mehwish  
Taylor, Leanne  
Terentii, Alina  
Thompson, Dina  
Toda, Eiko  
Tran, Cindy  
Tran, Jimmy  
Trivedi, Kush  
Truong, Michelle  
Tsang, Betty  
Tse, Tiffany  
Tung, Anita  
Ugulini, Brooklynn  
Uppal, Ashley  
Uy, Anne Marie  
Vanasse, Magdalin  
Vane, Marco  
Venkatraman, Mansa

Vig, Ramandeep  
Vo, Khang  
Vuong, Chelios Phi Lon  
Wahab, Lamees  
Waite, Anna Marie  
Wang, Lu Ning  
Wang, Ni  
Ward, Emma  
Ward, Isobel K  
Wight, Carolyn Danielle  
Wilson, Laura  
Wlasenko, Larysa  
Wong, Danny  
Wong, Jason  
Wong, Marcus Alexander  
Wong, Olive  
Wong, Venus Cheuk Kwan  
Woo, Amy  
Wood, Boyce  
Woodbeck, Kiersten  
Woolnough, Laurie  
Wu, Tzu-Yi  
Wu, Zhen Jennifer  
Xi, Jie  
Xie, Pan  
Xin, Ye  
Yao, Gongcheng  
Yap, Rachel Tien Tsui  
Yeung, Man Yuk  
Yeung, Marco Man Kei  
Yip, Karen  
Yip, Kathy Wan Ting  
Yip, Tony Ho Tung  
Ymele Leki, Vanessa Audrey  
Yu, Ambrose Chi Fung  
Yu, Danny Kenneth  
Yu, Ling  
Yue, Wen Wendy  
Zammit, Sara  
Zhang, Raymond  
Zhang, Xuan  
Zhao, Yi  
Zhao, Yue  
Zhou, Yi Xin  
Zhou, Yujia  
Zu, Young



### *Current Student Statistics*

Enrolment	Radiological Technology	Nuclear Medicine	Radiation Therapy	Total
Class 2013	40	39	49	128
Class 2012	40	31	48	119

*Table 1: Current Student enrolment numbers, per discipline as of May 1<sup>st</sup> 2011*

Enrolment	Radiological Technology	Nuclear Medicine	Radiation Therapy	Total
Class 2011	36	40	52	128

*Table 2: Number of students eligible to graduate at Convocation, June 2011*

### *Structure of the Program*

This joint program combines the strengths of the Faculty of Medicine of the University of Toronto and The Michener Institute for Applied Health Sciences (Michener) and makes full use of their complementary resources and expertise. The integrated three-year curriculum aims to provide students with a broad-based theoretical and analytical foundation for their discipline-specific professional responsibilities. Graduates receive a B.Sc. in Medical Radiation Sciences from the University of Toronto and an Advanced Diploma of Health Sciences from Michener. Students receive instruction at both institutions.

Teaching faculties are drawn from both the University of Toronto and Michener. The program is designed to accommodate 130 students per year. The three-year curriculum provides students in each of the three disciplines a core curriculum of broadly based content along with discipline-specific courses and clinical practice activities. The program provides breadth and depth of knowledge and develops analytical, critical and evaluative skills. Professional values, responsibility, accountability, sensitivity and ethical attitudes towards both the consumer and health care community are emphasized. Students learn to evaluate and consider the implications of their professional actions. The clinical practicum components integrate and apply the material taught in lectures and labs, leading to the development of clinical competence. Each student is required to complete 38 weeks of full-time clinical practice.

Courses delivering knowledge and imparting skills required in common by all three disciplines comprise the core curriculum and include instruction in anatomy, clinical behavioral sciences, inter-professional collaboration, patient care, physiology, relational anatomy and research methods. Students in each discipline undertake, in addition, a set of courses focused on discipline specific material. Clinical practice and experiences at the affiliated hospital sites are specific to the discipline. The curriculum emphasizes critical thinking, evidence-based practice and problem solving in the belief that these attributes play a crucial role in the optimal delivery of health care in today's evolving health care environment.

### *Graduation Statistics*

Radiological	Nuclear	Radiation
--------------	---------	-----------

	Technology	Medicine	Therapy
2006	84.0 (88.1)	90.6 (89.5)	97.1 (90.4)
2007	96.0 (94.2)	83.9 (82.8)	98.2 (89.2)
2008	96.9 (94.9)	81.8 (79.2)	71.7 (75.0)
2009	91.7 (91.3)	97.0 (91.4)	94.5 (90.5)
2010	97.1 (90.1)	75.0 (83.3)	80.4 (79.0)

*Table 3: Percentage of students successful on the first write of the National Certification exam. (National averages in brackets).*

#### *Academic output*

Overall Highest Academic Standing:

Gold, Silver and Bronze awards are given to the graduates attaining the highest overall cGPA at the June 2010 Convocation Ceremony

Gold Medalist: Benoit Ladouceur – Radiation Therapy  
Silver Medalist: Matthew Schwietz – Radiological Technology  
Bronze Medalists: Kerri McDougall – Nuclear Medicine

#### Research Awards

University of Toronto/Michener Institute Award for Excellence in Research by a Final Year Medical Radiation Sciences Student.

Winner: Kevin Smith - Radiation Therapy  
Title: "Use of the AP-PA POP Technique for the Treatment of Spinal Metastases"  
Co-Supervisors: Michelle Lau, MRT(T), Rebecca Wong, MD & Daniel Letourneau, PhD

#### Honourable Mention

Supervisors: Anna Kim – Nuclear Medicine  
Brian Marvin, MRT(N), Glenn Wells, PhD & Terry Ruddy, MD

#### Clinical Project Awards

In each discipline the students who have the highest marks for Clinical Project are recognized for their achievements.

#### Radiological Technology

Outstanding achievement in clinical project: Catherine Mellor  
Honourable mention: John Tran

#### Nuclear Medicine

Outstanding achievement in clinical project: Kerri McDougall  
Honourable mention: Alexander Yuen

#### Radiation Therapy

Outstanding achievement in clinical project: Natalia Matthew  
Honourable mention: Taya Kerstens

### *Special Activity this Year*

The MRS Program leadership continues to develop a collaborative strategic agenda for the Program moving forward with an emphasis on quality. The Program also continues to build, consolidate and develop long term relationships with its clinical partners, providing professional development opportunities and exploring new clinical education models. This past year has seen relationships develop with both Southlake Regional Health Centre and the Carlo Fidani Peel Regional Cancer Centre at Credit Valley Hospital.

The strong relationship with the Department of Physiology and the Division of Teaching Laboratories at U of T has continued to flourish. This relationship, in collaboration with the Division of Anatomy in the Department of Surgery, continues with the ongoing development of an online Anatomy course to be implemented and delivered to MRS students in September 2011.

The clinical simulation semester, a semester designed to better prepare students for entry into the clinical practicum component of the Program continues to evolve and advance, as newer technologies become available. Moreover increased participation from the medical radiation sciences clinical faculty, particularly from Princess Margaret Hospital and the Odette Cancer Centre, provides for a more diverse learning environment. The MRS Program also continues to align and integrate the UofT longitudinal interprofessional learning activities throughout the MRS curriculum.

For the intake of 2011 the Program has chosen to replace the traditional personal interview with the Multiple Mini Interview (MMI). The MMI is an admissions interview process developed by McMaster University for its school of medicine. This process has been adopted by other health professional programs at UofT (such as the Physician Assistant Program and Pharmacy) as well as the health professional programs at Michener.

## **Equity Report**

Program Director: Fei-Fei Liu

Since the initial appointment of the Equity Officer within UT DRO in 2008, a website has been established, hosted on the UT DRO webpage, informing the community of the existence of this position, and accessibility to the Equity Officer to discuss any issues of concern.

Important information is provided on this webpage, including relevant dates for religious observances, the University of Toronto Human Resources and Equity Annual Report, the newly-established Standards of Professional Behaviour for Medical Clinical Faculty, the University of Toronto Employment Equity Report, and the Ontario Human Rights Code.

There has also been co-ordination with counterparts within the Faculty of Medicine to ensure streamlining and harmonization of Equity and Professionalism activities. To that end, the UT DRO Equity Officer has been collaborating with Dr. David McKnight, the Associate Dean of Equity and Professionalism in the Faculty of Medicine, at the University of Toronto on developing programmatic activities promoting Diversity and Professionalism within UT DRO. This activity was “operationalized” by presenting the first set of rounds at the Odette Cancer Cancer in January 2010 with Drs. David McKnight, Pam Catton, and F-F Liu. This set of information rounds was very well received.

A plan for this presentation to be repeated at the Princess Margaret Hospital Site later in 2010 did not take place, for several different reasons. This will be re-planned to take place in 2011.

## Research Report

Dr. David Jaffray

Members of UT DRO have made significant gains in research funding and productivity in the last year. The current faculty has tremendous strength and expertise in diverse research areas that spans molecular radiation biology, radiation physics and imaging, outcome studies and clinical trials, and health services and epidemiology. Strong collaborations, both within and beyond the University (national and international), have been established. In the UT DRO strategic planning, the faculty has identified the need to centre our research efforts on the urgency to improve patient care and outcomes. The following themes on research have emerged based on the recent completed strategic planning of UT DRO:

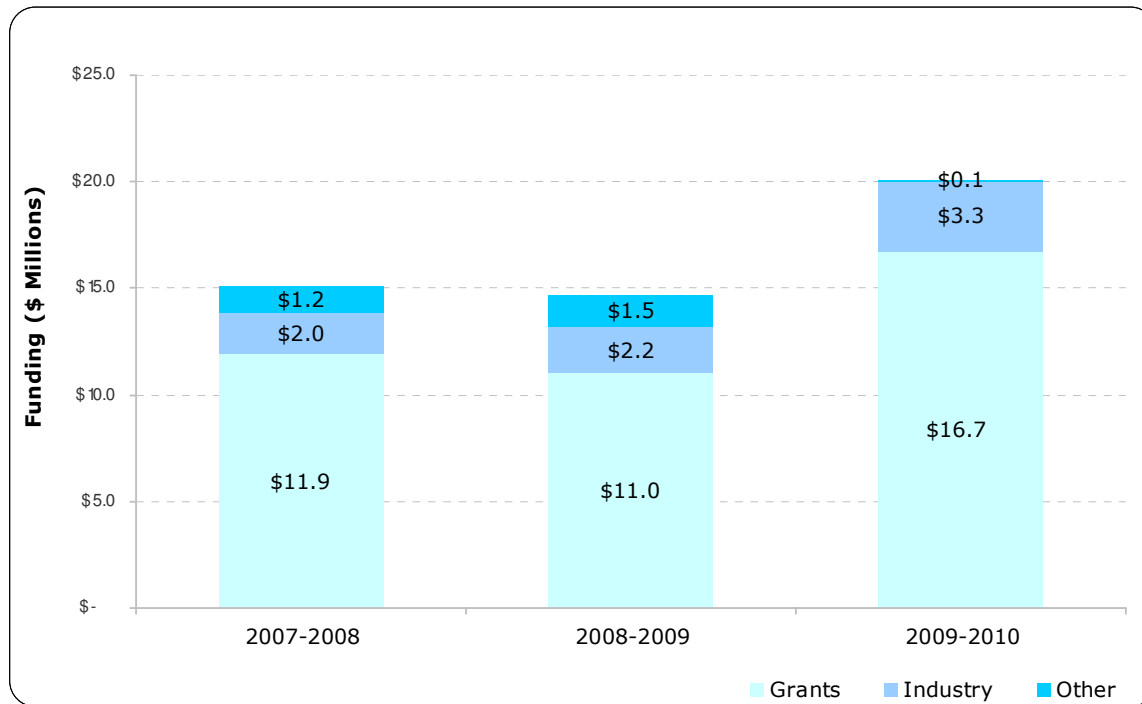
1. Repairing radiation damage including developing the world's first program in "Radio-Repair"
2. Optimized biological and physical targeting for the patient including multidisciplinary, multimodal targeting, initiating radioisotope therapy research, and smart particle therapy research
3. Informatics for radiation oncology including creating a Toronto-wide data warehouse.
4. Metastatic and recurrent disease research including building the best metastatic disease management program in the world.

The faculty is currently working on an implementation strategy to develop these four research themes.

### *Research Highlights*

- **Dr. Robert Bristow** received \$20M for his research project "The Canadian Prostate Cancer Genome Network (CPC GENE)" from Prostate Cancer Canada and the Ontario Institute for Cancer Research.
- **Dr. Greg Czarnota** secured a \$421,000 grant from Cancer Care Ontario for research entitled "Combined ultrasound and optical methods for personalizing care in locally advanced breast cancer."
- **Dr. Lawrence Paszat** was awarded a \$1.2M Cancer Care Ontario Research Unit Grant for his work with SCREEN-NET ONTARIO: The Ontario Cancer Screening Research Network.
- **Dr. Rebecca Wong** was awarded a Canadian Radiation Oncology Foundation/Sanofi-Aventis Research Innovation Award for her research "A Phase I/II study of high dose rate brachytherapy for the palliation of rectal cancer."
- **Drs. Loblaw, Ménard, Bristow, Vesprini, and Haider**, in collaboration with Drs. Klotz (coPI), Fenster, Sugar, and Van der Kwast, have secured a Strategic Grant from the OICR for their research entitled "Active Surveillance Magnetic Resonance Imaging Study (ASIST Trial)." The \$2.7M Grant is effective from 2011-2013.
- **Dr. Jean-Philippe Pignol** secured a CIHR Operating Grant valued at \$130,323 for his work with Dr. Ivo Olivetto entitled "Long term outcomes of a multicentre controlled clinical trial of breast irradiation using IMRT."

## Yearly Research Funding (Figure 1)

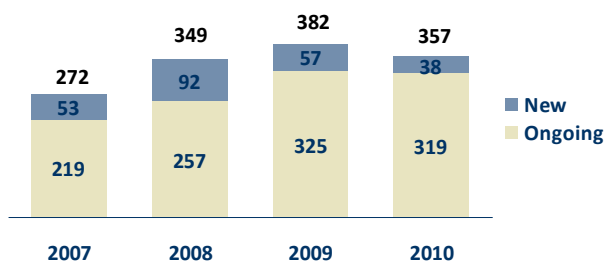


### Yearly Research Funding\*

While measures of research funding are made more complex by the distribution of fund administration across UofT, OCC, and UHN, the trend to increased revenue is encouraging. We continue to refine our assessment measures and this year's number includes our most accurate estimate to date by drawing on current faculty-provided data. Values represent the annual value of the awards, and not the full awarded amount for multi-year grants. The categorization of "Other" funding in 2009-2010 only includes University-granted funding. The 2010-2011 successes in landing large program (CCS), network (ORF-RE) and infrastructure (CFI) grants will introduce large variations in the totals. This masks interesting trends in investigator-driven operating grants, as well as, interferes in forecasting program growth. In the future, funding should be reported with finer granularity. Overall, UTDRO is maintaining a healthy level of funding per faculty with many more grants to be included in next year's tally.

\*2011 Research Report corresponds to the 2010/2011 academic year. However, funding statistics for 2010/2011 are not available at time of report generation, therefore, reported funding stats correspond to 2009/2010 academic year.

## Active Protocols

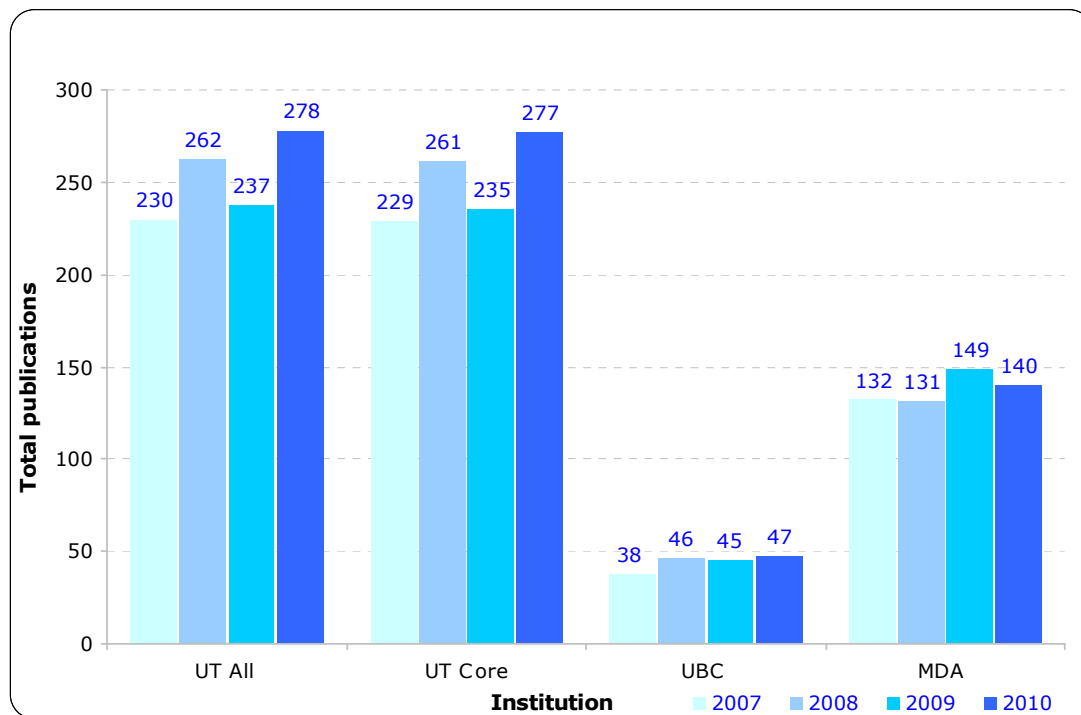


## Summary

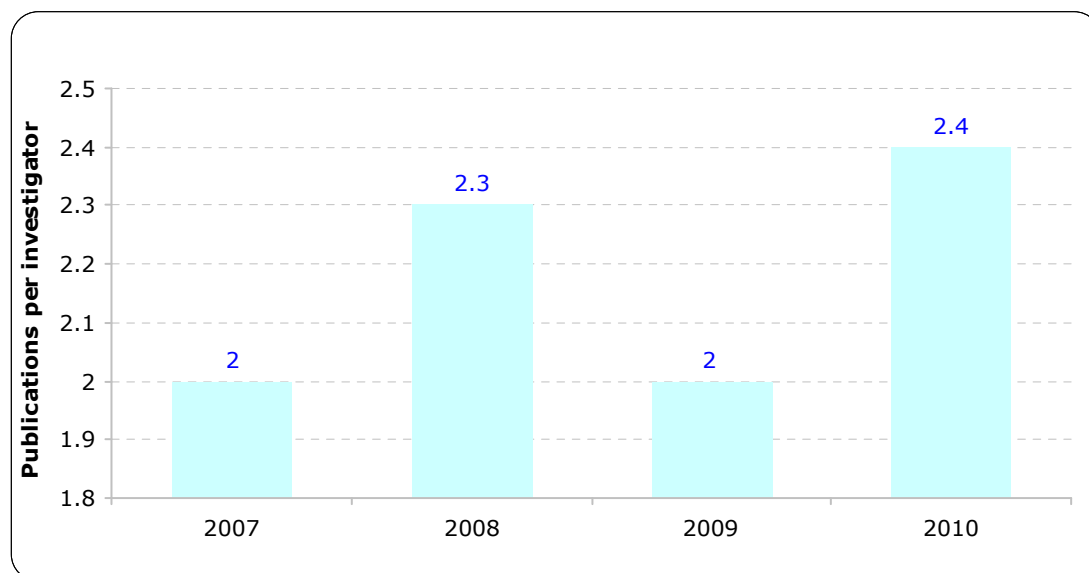
- Review of Faculty Funding and Awards revealed an increase in funding. This observed increase is due to multiple factors including the success of UTDRO faculty in negotiating large program project grants. The ability to compete for these funds is a positive indicator for the department.
- Protocol activity remains high. The surge in protocols in 2008 could be attributed to the broad adoption of IGRT in the clinical setting. One hypothesis is that these new technologies instigate clinical studies of their performance relative to conventional approaches.

## Publications

Comparison of publication output with peers: 2007-2010 (Figure 2)



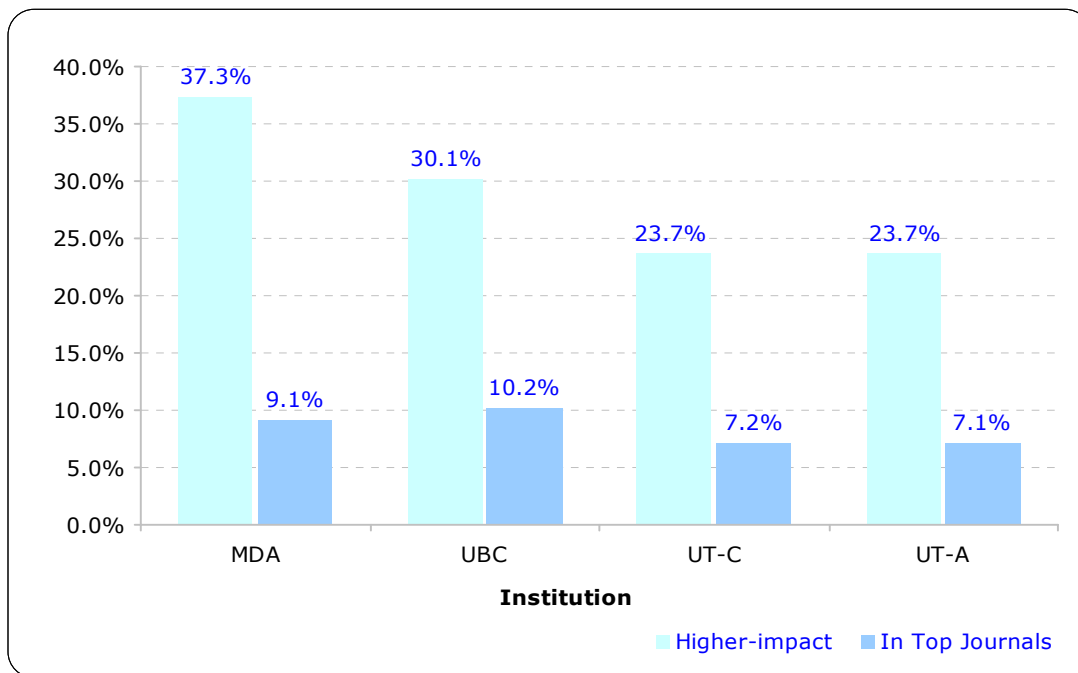
Publications per investigator: 2007-2010 (Figure 3)



**Four year summary of publications compared to peers: 2007 - 2010 (Figure 4)**

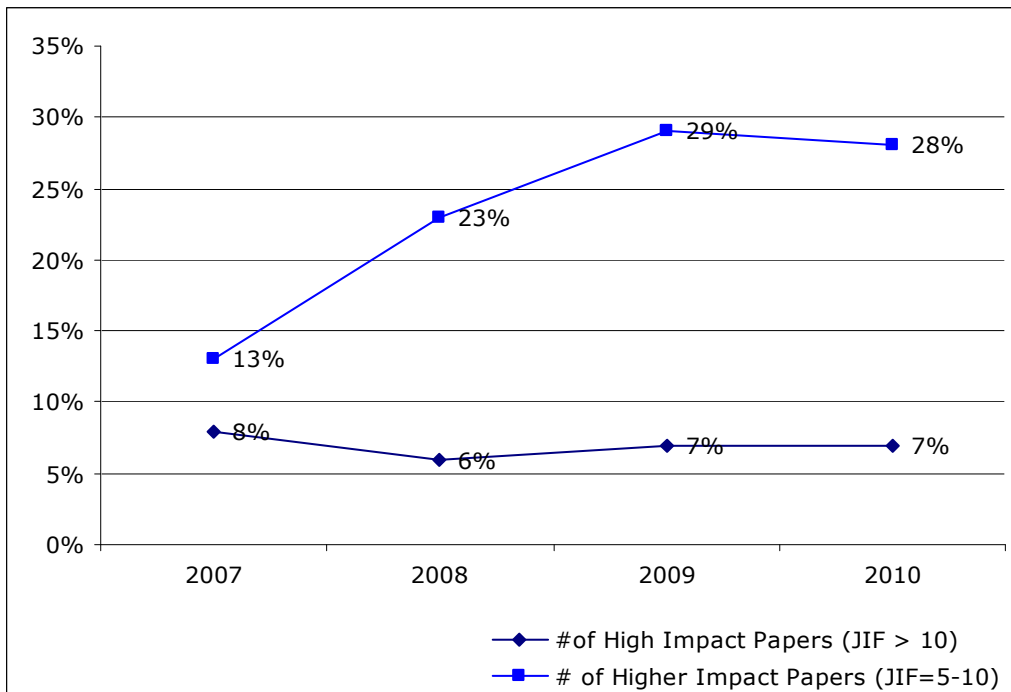
<b>Institution (n investigators)</b>	<b>Papers</b>	<b>Citations (Aug. 2011)</b>	<b>Papers per PI/year</b>	<b>Cites per paper</b>	<b>Proportion cited</b>
UT Core (n=115)	1002	9311	2.2	9.3	82.5%
UT All (n=150)	1007	9327	1.7	9.3	82.5%
MDA (n=52)	552	6854	2.7	12.4	89.5%
UBC (n=65)	176	2541	0.7	14.4	86.3%

**Proportion of Higher-impact publications and publications in Top Journals: 2007-2010  
(Figure 5)**

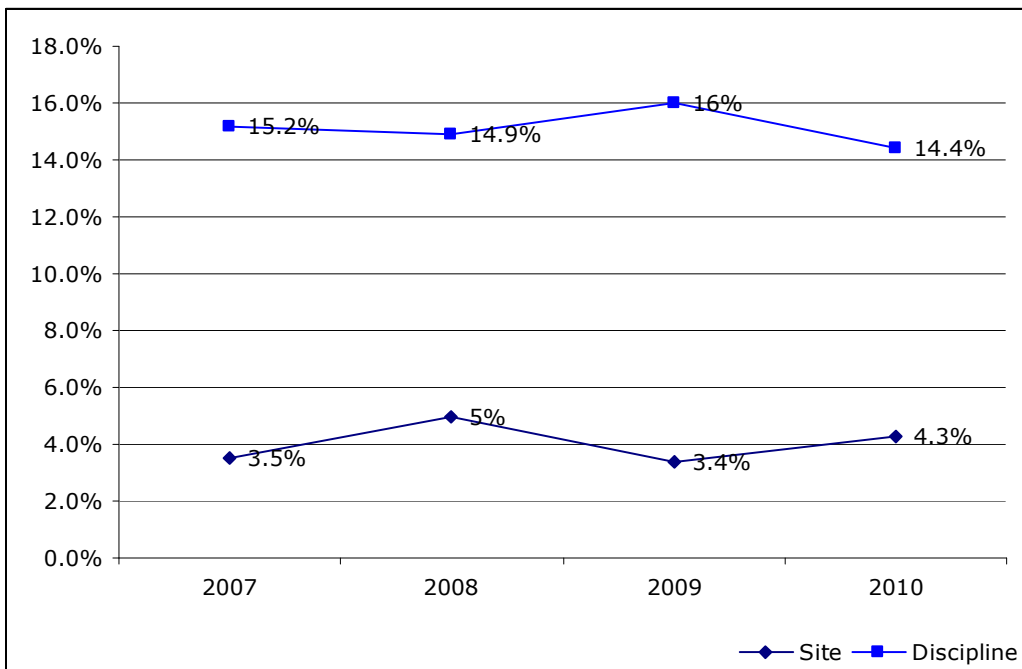




**UT DRO Higher-impact publications: 2007-2010 (Figure 6)**



**UT DRO publication collaboration across clinical sites and disciplines in the UT DRO: 2007-2010 (Figure 7)**



### *Summary of Bibliographic Review*

- UHN DRO investigators continue to publish a substantial number of papers and fall between their American and Canadian peers in terms of publication intensity. The publication rate continues to trend higher in 2009-2010, including an increase in publications per investigator. Our competitiveness with respect to publications in high impact journals and citation rates is a quantity that needs to be monitored. The multi-disciplinary nature of the faculty could be a factor that affects this metric. The publication of articles related to technical factors in the practice of radiation oncology are likely to yield lower impact factors. We have seen the development of many smaller journals that respond to the large number of papers emerging in this domain. This includes the launch of Practical Radiation Oncology (PRO) by Elsevier in response to the submission rate to the Int J Rad Onc Phys Biol (Red Journal). The demonstrated trend (Figure 6) toward higher impact factor publications in the department seems somewhat inconsistent and these trends required further investigation.
- This year's report attempted to analyze the degree of cross-discipline and cross-site collaborations through the bibliographic database. The department promotes itself as being multi-disciplinary in its education and research and measuring trends in this regard would provide evidence. Based on the results in Figure 7, it is clear that we are more multi-disciplinary in our collaboration than we are multi-site. The strategic plan has a number of elements that should encourage more cross-institutional collaboration and this metric will be able to monitor the impact of these elements of the strategic plan. Finally, identifying a comparison department at another university would be valuable to allow us to benchmark our degree of multi-disciplinary collaboration.

## Research Grants

Allen C, **Jaffray DA**. Image-guided design of an actively targeted liposomal formulation drug formulation for treatment of lung cancer. Canadian Institutes of Health Research (CIHR). \$592,018, 2010- 2015.

**Barbera L**, Gien L, Covens A, Elit L, **Fyles A**, Khalifa M, **Rakovitch E**, Sutradhar R, **Thomas G**. Vulvar carcinoma: A population-based analysis. Canadian Cancer Society Research Institute (CCSRI). \$352,243, 2010-2013.

**Barbera L**, Howell D, Seow H, Husain A, Sussman J, Atzema C, Earle C, Dudgeon D, King S. Patient and provider reported outcomes in cancer patients in Ontario. Ontario Institute for Cancer Research (OICR). \$234,465, 2010-2014.

Beaulieu L, Després P, **Pignol JP**, Thomson R, Vigneault E. Advanced model-based dose calculations for brachytherapy clinical applications. Canadian Cancer Society Research Institute (CCSRI) Research Grants. \$338,400, 2011 – 2014.

Bell M, Bell E, Britten N, Embuldeniya G, Lineker S, **Nyhof-Young J**, Sale J, Tugwell P. Meta-ethnography of qualitative research on peer support in chronic disease. CIHR Knowledge Synthesis Grant 2009. \$100,000, 2010.

Bernstein L, Dissanayake D, **Nyhof-Young J**. Investigating the effectiveness of a psychosocial intervention for cancer-related cognitive dysfunction. UHN Allied Health Research Competition 2011. \$1,050, 2011- 2012.

**Breen SL**, **Jaffray DA**. Adaptation of head and neck radiotherapy based on magnetic resonance imaging. Ontario Research Fund / IMRIS (ORF). \$360,000, 2010- 2013.

**Breen SL**, **Sun A**, **Jaffray DA**. The role of gated PET in adaptive treatments of lung cancer. Ontario Research Fund / GE Healthcare (ORF). \$210,000, 2010- 2013.

**Bristow RG**, Pelletier L, van der Kwast T. Augmin-Centrosome Complexes: A Novel Marker for Prostate Cancer Aggression/Progression. Ontario Institute for Cancer Research. \$513,612, 2011-2014.

**Bristow RG**. A High-throughput Discovery of Prostate Cancer Stem Cell Epitopes. Orillia Cancer Foundation-Motorcycle Ride For Dad. \$70,000, 2011-2012.

**Bristow RG**, Zafarana G. Stem Cell Markers and Radiotherapy Outcome in Intermediate Risk Prostate Cancer-Translational Studies. Canadian Radiation Oncology Foundation (CROF). \$20,118, 2011-2012.

**Bristow RG**, Boutros P, Hudson T, Stein L, Muthuswamy, L, van der Kwast T, Collins C. The Canadian Prostate Cancer Genome Network (CPC-GENE): A National Outcomes-Based DNA Sequencing Initiative. Prostate Cancer Canada and the Ontario Institute for Cancer Research. \$20,000,000, 2011-2015.

**Bristow RG**. Individualization of Therapy for Prostate Cancer Patients: Predictive Biomarkers Based on DNA Repair Gene Expression, Rapid AstraZeneca & CARO Evaluation of Radiomodifiers (RAZCER) Research Award. \$25,537, 2010-2011.

**Catton C**, Lukka H, **Warde P**, Levine M, Julian J, Bauman G, Parliament M, Wu J, Souhami L, Bahary JP. A randomized trial of a shorter fractionation schedule for localized carcinoma of the prostate. Canadian Institutes of Health Research (CIHR). \$331,405, 2010-2015.

Chan TCY, **Bissonnette JP**, **Purdie TG**, Heath E, McCann C, **Sharpe MB**, **Hope A**, **Bezjak A**, **Jaffray DA**. ARRT: Adaptive and robust radiation therapy treatment planning for lung cancer. NSERC/CIHR Collaborative Health Research Project (CHRP) program. \$526,246, 2011-2014.

Chan T, **Bezjak A**, **Bissonnette J-P**, Heath E, **Hope AJ**, **Jaffray DA**, McCann C, **Purdie TG**, **Sharpe MB**. ARRT: adaptive and robust radiation therapy treatment planning for lung cancer. Canadian Institute of Health Research, Collaborative Health Research Projects (NSERC Partnered). \$263,123, 2011-2013.

**Cheung P**, Levine M, **Catton C**, Lukka H, **Warde P**, Julian J, Bauman G, Parliament M, Wu J, Pickles T, Bahary JP, Souhami L. A randomised trial of a shorter fraction schedule for the treatment of localised prostate cancer. Canadian Institute of Health Research (CIHR). \$331,405, 2010-2014.

**Cheung P**, **Loblaw A**, **Vesprini D**, **Chung H**, **Chu W**, **Szumacher E**, Buckley R, **Pang G**. Phase 2 study of dose-escalated, hypofractionated radiotherapy and androgen deprivation for high risk prostate cancer (pHART8). Canada's Motorcycle Ride for Dad Grant. \$39,220, 2011.

Chiu W, Urowitz S, Smith J, **Wiljer D**, Grady I, Dowsett I, Dunlop B, Cockburn M, Zimmer H. Building recipes and understanding nutrition for cancer-survivor health (BRUNCH). NSERC. \$15,000, 2010-2011.

**Chow E**. Development of a Canadian-led international bone metastases module to accompany European Organization for Research and Treatment of Cancer Quality of Life Group Core Questionnaire (the EORTC QLQ-C30) for future clinical trials in patients with bone metastases Phase IV study. EORTC Quality of Life Group Grant. 74,000 Euro, 2010-2011.

**Chu W**. Integration of MRI into prostate radiotherapy. Motorcycle Ride for Dad. \$39,000, 2010.

**Chung C**, **Hope A**, **Menard C**, Zadeh G, **Lindsay P**, Foltz W, **Jaffray D**. Anti-VEGF therapy in murine brain radionecrosis model. Canadian Association of Radiation Oncologists (CARO). \$25,537, 2010-2012.

**Chung C**, **Ménard C**, Zadeh G, Bernstein M, **Laperriere N**, **Millar B**, **Bristow R**, Camphausen K, Foltz W, Damyanovich A, **Coolens C**, **Stanescu T**, **Cho Y**, **Ruschin M**, Kucharzyk W. Discovery of biomarkers to guide individualized therapy in patient's with brain metastasis receiving radiotherapy. Brain Tumor Foundation of Canada. \$24,850, 2010-present.

**Chung H**, Ko YJ. Radiosensitization with bevacizumab for stereotactic body radiotherapy (SBRT) for colorectal liver metastases. Investigator-initiated funding from Hoffman-La Roche Limited. \$73,000, 2010-2012.

**Chung HT**, **Czarnota G**, **Morton G**, **Loblaw A**. Conventional frequency spectroscopic ultrasound imaging as a personalized measure of treatment response to external-beam radiotherapy. Abbott-CARO Uro-Oncologic Radiation Awards (ACURA). \$19,625, 2011-2012.

Classen CC, Ferguson S, Brotto L, Barnes E, Koval J, Robinson J, Urowitz S, **Wiljer D**, Chivers M. An online support group for sexual distress due to gynecological cancer: a randomized controlled trial. Canadian Cancer Society Research Institute (CCSRI). \$857,058.00, 2011-2014.

**Coolens C**. 4D perfusion computed tomography. Dean's Fund University of Toronto, \$10,000, 2010.

**Coolens C**, Validation framework for 4D perfusion computed tomography. Natural Sciences and Engineering Research Council of Canada (NSERC), Discovery Grant. \$100,000.00, 2010-2015.

**Craig T, Menard C, Kong V, Catton C**. Post-operative adaptive radiation therapy for localized prostate cancer. Canadian Radiation Oncology Foundation / Sanofi – Aventis Research Innovation Award. \$20,000, 2010 – 2011.

**Czarnota G, Brock K**, Karshafian R, Kolios MC, **Pignol JP, Rakovitch E**, Stanisiz GJ. Ultrasound for cancer therapy. Canadian Institute for Health Research - Team Grant: Terry Fox New Frontiers Program in Cancer (CIHR). \$2,704,743, 2010-2013.

**Czarnota GJ**, Burns PN, **CS Wong**. Novel ultrasound-activated microbubble enhancement of radiation response: Investigation of mechanism. Canadian Cancer Society Research Institute (CCSRI). \$389,532, 2010 – 2013.

**Czarnota GJ**, Chin L, Dent R, Holloway C, Kiss A, Lilge L, **Spayne J**, Wright F, Zubovits J. Optical spectroscopy for improving chemotherapy. Canadian Breast Cancer Foundation (CBCF). \$302,990, 2010 – Present.

**Czarnota GJ**, Kolios MC, Stanisiz GJ, **Brock KK**, Karshafian R, **Pignol JP, Rakovitch E, Dinniwell R**, Zubovits J, Wright F, Stanisiz G. Data acquisition module for real-time quantitative ultrasound of neoadjuvant chemotherapy response assessment. Ontario Institute for Cancer Research (OICR). \$51,705, 2010 – 2011.

**Czarnota GJ, Wong CS**, Burns P. Novel ultrasound-activated microbubble enhancement of radiation response: investigation of mechanism. CIHR. \$125,000, 2010-2013.

**Czarnota GJ**. Ultrasound detection for cancer treatment effects: Advanced analytical tools and methods for cell death detection and vascular destruction detection. MaRS Innovation. \$50,000, 2010 – Present.  
**D'Alimonte L, Holden L, Vesprini D**, Liszewski B. An evaluation of two immobilization devices for prostate cancer treatment. Sunnybrook Practice-based Research Awards. \$8155.00, 2011-12.

**D'Alimonte L, Vesprini D**, Devji N, McGuffin M, Dugas L, Lange-Mechlen I, Goodbrand A, Russell S, **DiProspero L**, Hadizad F, DeAngelis C. To prep or not to prep. ACURA Uro-Oncologic Radiation Award (ACURA). \$23,544, 2011-12.

DeAngelis C, **Chow E**, Pasetka M, Walker S. A pilot study to evaluate urinary markers of pain flare in patients undergoing external beam radiotherapy for the treatment of painful bone metastases. International Society of Oncology Pharmacy Practitioners. \$15,000 Euros, 2010.

**Dinniwell R, Breen S, Grinblat L, Lockwood G, Purdie TG.** The use of SPECT/CT and CT lymphography to delineate spatial and functional relationships between the lymphatics of the breast and upper extremity. Canadian Breast Cancer Research Alliance (CBCRA) IDEA Grant. \$56,278, 2010-2012.

**Dinniwell R, Czarnota G, Levin, W, Catton P.** Multi-parametric assessment of breast lymphedema. Canadian Breast Cancer Foundation (CBCF). \$69,852, 2011-2013.

Gagliardi A, Legare F, Brouwers M, **Wiljer D**, Webster F, Badley E, Straus S, Greenberg A, Friedman A, Logan H, Condie K, Legare J, Overton E. Developing a conceptual framework of patient mediated knowledge translation: systematic review using a realist approach. Canadian Institutes of Health Research Knowledge Synthesis. \$99,045, 2010-2011.

Goldenberg A, Trachtenberg J, Kucharczyk W, **Haider MA**, Sussman M. MRI-guided focal ablation of prostate cancerous tissue. NSERC CHRP Award. \$375,000, 2010- 2013.

Green E, **Catton P**, Sawka C, Lalonde B, Jadad A, **Wiljer D**, Urowitz S, O'Grady L, Friedman A, Jones J, Leonard K. Engaging survivors to improve patient experiences throughout the cancer journey. Canadian Health Services Research Foundation. \$100,000, 2010-2013.

Green E, Sawka C, Lalonde B, Jadad A, **Wiljer D**, Urowitz, O'Grady L, Jusko Friedman A, Jones J, Leonard K. Engaging survivors to improve patient experiences throughout the cancer journey. Canadian Health Services Research Foundation (CHSRF). \$200,000, 2010 – 2012.

Guha A, Bouffet E, Edelstein K, Rutka J, **Laperriere N**, Zadeh G. A phase II study of Nilotinib on growing vestibular schwannomas. OICR. \$540,000, 2010-2015.

Hall S, **O'Sullivan B, Liu FF**, Perez-Ordenez B, Groome P, Tu D, Gillison M. Is the improvement in survival for HPV associated head and neck cancer due to the addition of chemotherapy to radiotherapy or to a more treatment-sensitive cancer? Canadian Institute of Health Research (CIHR). \$238,721, 2011.

Hammond P, Chafanska A, **Nyhof-Young J**. Today I understand it better: evaluating breast cancer patients' success in learning lymphatic self-massage at the Princess Margaret Hospital Lymphedema Clinic. Massage Therapy Foundation Fund grant. \$14,627.50, 2011-2012.

Hedley D, **Wouters B, Hill R**. Mechanisms and consequences of hypoxia in pancreatic cancer patients. Terry Fox Research Institute\Ontario Institute for Cancer Research (OICR). \$443,000, 2010-2013.

**Hill R, Wouters B**, Hedley D, Chaudary N, **Koritzinsky M, Yeung I, Milosevic M**. Effects on tumour response and progression in cervix cancers. Canadian Institutes of Health Research (CIHR). \$170,717, 2010-2014.

**Hill RP**, Hedley D, Chaudary N, **Milosevic M, Koritzinsky M, Wouters B, Yeung I**, Tong IW. Effects on tumour response and progression in cervix cancer. Canadian Institutes of Health Research (CIHR). \$599,312, 2010-2014.

**Hill RP, Hope A**, Waddell T. Mitigation of radiation-induced lung damage. Canadian Institutes of Health Research (CIHR). \$127,465, 2011 – 2014.

**Hodgson D**, Aquino-Parsons C, Brenner D, Connors J, Schwartz C, **Brock K**, **Sharpe M**, Sivaloganathan S. Optimizing long-term outcome for Hodgkin lymphoma patients: Modeled Reduction in Adverse Late Effects (MORALE). CIHR. \$89,757, 2010-2013.

Howell D, **Bezjak A**, Devins G, Gagliese L, Leighl N, Rodin G, Zimmerman C. Influence of beliefs about symptoms on symptom intensity, distress and patient's participation in self-management behaviours in lung cancer. Canadian Institute of Health Research (CIHR). \$295,083, 2010-2013.

Howell D, **Bezjak A**, Sidani S, Carrieri-Kohlman V. A randomized trial of a non-pharmacological/self-management intervention for lung cancer dyspnea. Canadian Institute of Health Research (CIHR). \$160,000, 2010-2012.

Howell D, Friedman A, **Catton P**, Fleshner N, Jones J, Krzyzanowska M, Elser C, **Gospodarowicz M**, McCowan P, Bottorff J. Integration of a disease self-management approach in the cancer system to optimize health and living with cancer: A road map for implementation. Canadian Institutes for Health Research (CIHR). \$228,250, 2010-2012.

**Jaffray D**, Aleman D, Battista J, **Breen SL**, **Brock K**, Caldwell C, **Cho YB**, Clark B, **Craig T**, Fenster A, Fichtinger G, Hyde D, **Islam M**, **Letourneau D**, **Mah K**, **Menard C**, **Moseley D**, Patel R, Peters T, Schreiner LJ, van Dyk J, Wong E. Ontario consortium for adaptive interventions in radiation Oncology (OCAIRO). Ontario Research Fund. \$8,000,000, 2010.

**Jaffray D**, Allen C, **Bristow R**, **Chow J**, **Hill R**. Engineering gold nanoparticle radiosensitizers for cancer therapy. Canadian Institutes of Health Research (CIHR). \$649,655, 2010-2014.

**Jaffray DA**, Allen C, **Hill R**, **Bristow R**, **Chow J**. Engineering gold nanoparticle radiosensitizers for cancer therapy. Canadian Institutes of Health Research (CIHR). \$710,029, 2010- 2015.

**Jaffray DA**, **Brock KK**, **Dawson L**, Fehlings M, Kucharczyk W, **Menard C**, **Milosevic M**, Sieverdsen J, Trachtenberg J, Tymionski M. Robotic positioning for image-guided surgery and radiation therapy. Canadian Foundation for Innovation (CFI). \$5,500,000, 2010- 2015.

**Jaffray DA**, **Mah K**, Kaus M, **Morton G**, **Thomas G**, **Poon I**, **Batchelar D**, McGhee P. Evaluation and integration of MRI into radiation oncology planning and treatment response. Ontario Research Fund, Ontario Consortium for Adaptive Interventions in Oncology. \$485,000, 2010- 2015.

**Jaffray DA**, **Sharpe MB**, **Létourneau D**, **Purdie T**, **Dinniwell RE**. On-line planning tools for radiotherapy with curative intent: application to breast cancer. Ontario Research Fund (ORF). \$128,571, 2010-2012.

Jones J, Howell D, **Catton P**, Earle C, Harrison M, **Warde P**, Urowitz S, Ferguson S, **Wiljer D**, Friedman A, **Sharpe M**, Fitzgerald B, **Gospodarowicz M**, Buchman S, Gagliardi A. Transition to survivorship: Translating knowledge into action for testicular and endometrial cancer populations. Canadian Institutes for Health Research (CIHR). \$324,308, 2010-2013.

Jones J, Howell D, **Catton P**, Fleshner N, McCready D, Olson D. The prevalence and correlates of cancer-related fatigue in colorectal, breast and prostate cancer survivors. Canadian Institute of Health Research (CIHR). \$100,000, 2010-2011.

Jones J, Howell D, Ferguson S, **Warde P**, Gagliardi G, Harrison M, Friedman A, **Catton P**, Fitzgerald B, **Sharpe M**, **Gospodarowicz M**, Jadad A, Urowitz S, **Wiljer D**. Transition to survivorship: translating knowledge into action for testicular and endometrial cancer populations. Canadian Institutes of Health Research. \$256,581, 2010-2013.

Klotz L, **Loblaw A**, **Haider M**, **Menard C**, Fenster A, Sugar L, VanderKwast T, **Bristow R**, **Vesprini D**. Active surveillance magnetic resonance imaging study (ASIST TRIAL). Ontario Institute for Cancer Research (OICR). \$2,668,240, 2011-2013.

**Koch CA**, Ikura M. Characterization of APLF (C2orf13) in DNA double-strand break repair and in the maintenance of genome stability. Canadian Institutes for Health Research (CIHR). \$108,000 per yr, 2010-2013.

Kong I, **Rakovitch E**. Ductal carcinoma in situ and young women: A population-based analysis. Canadian Breast Cancer Foundation – Ontario Chapter Fellowship Program Funding (CBCF). \$71,500, 2010-2011.

**Liu F-F**, Ito E, Kim I, Schimmer A. Small molecule inhibitors against a novel radio-and chemo-sensitizing target for human cancers. Canadian Institutes of Health Research. \$422,553, 2010-2013.

**Liu F-F**, Ito E, Kim I, Kotra L, Pai E, Ikura M, Rahimpour R. Targeting UROD as a novel anti-cancer therapeutic strategy. Canadian Institutes of Health Research Proof-of-Principle. \$150,000, 2010-2011.

Liu G, Howell D, Brundage M, **Barbera L**, Bradbury P, Hung R, Kim R, Leighl N, Li M, Mittman N, **Waldron J**, **Wong R**, Zimmerman C. Ontario patient reported outcomes of symptoms and toxicity. Cancer Care Ontario. \$1,182,500, 2011-2016.

**Liu SK**. Preclinical testing of a notch inhibitor with radiotherapy in colorectal and breast cancer. Rapid AstraZeneca & CARO Evaluation of Radiomodifiers (RAZCER). \$25,537, 2011.

**Loblaw**, **Menard C**, **Bristow RG**, **Vesprini D**. Active Surveillance Magnetic Resonance Imaging Study (ASIST Trial). Ontario Institute for Cancer Research. \$2,700,000 over 3 years, 2011-2013.

**Loblaw DA**, Venkatesawaran V, Klotz L, Venier N, Colquhoun A, Fleshner N. Assessing the radiosensitizing capacity of capsaicin. RACZER Award. \$25,500, 2010-2011.

Lu QB, **Jaffray DA**, **Bristow R**. Molecular-mechanism-based target identification and drug discovery for radiotherapy of cancer. Canadian Institute of Health Research (CIHR). \$662,287, 2010- 2015.

Maheu C, Lebel S, **Catton P**, Fung Kee Fung M, Jolicoeur L, Lefebvre M, Courbasson C, Secord S, Rosberger Z. Cognitive-existential intervention to address fear of recurrence in women with cancer. Canadian Nurses Foundation, Nursing Care Partnership Program. \$32,013, 2010.

Maheu C, Lebel S, **Catton P**, Lefebvre M, Fung Kee Fung M, Roseberger Z, Jolicoeur. Cognitive-existential intervention to address fear of recurrence in women with cancer. CIHR. \$96,515, 2010-2011.



McKenzie M, **Chung C**. Imaging tumour hypoxia: feasibility of EF5-PET in prostate cancer. Canadian Association of Radiation Oncologists (CARO). \$20,000, 2010-2011.

**Menard C, Bristow R, Brock K, Catton C, Craig T, Foltz W, Haider M, Milosevic M, Stanescu T, van der Kwast T**. Tumor-targeted radiotherapy for prostate cancer. Canadian Cancer Society (CCS). \$745,340, 2011- 2014.

**Ménard C, Chung C**. Discovery of biomarkers to guide individualized therapy of brain metastasis. Brain Tumor Foundation of Canada. \$24,960, 2010-2011.

**Ménard C, Milosevic M**. Hypoxia imaging in patients with high-risk localized prostate cancer using F18-FAZA PET and MRI. Abbott – CARO Uro-Oncologic Radiation Award (ACURA). \$20,000, 2011-2012.

Mes-Masson AM, Aprikian A, Chevalier S, Chevrett M, Lapointe J, Lacombe L, Fradet Y, Larue H, Bergeron A, Squire J, Gleave M, Collins C, Fleshner N, **Bristow RG**. A Pan-Canadian initiative for the development of a biomarker driven approach to the management of prostate cancer. Terry Fox Research Institute (TFRI). \$485,000, 2010-2015.

Meyer R, Shepherd L, Eisenhauer E, Seymour L, Parulekar W, O'Collaghan C, Tu D, Ding K, Chapman JA, Chen B, Squire J, Dancey J, Bradbury P, Richardson H, Mason W, Oza A, **O'Sullivan B**, Gilbert R, Crump M, **Wong R, Tsao MS, Ringash J**, Leighl N, Gelmon K, Chi K, Whelan T, Hirte H, Jonker D, Gross G, **Ung Y**, Petrella T, Mittmann N, Stuart G, Saad F, Couban S, Spatz A, Bramwell V, Brundage M. CCS Clinical Trials Group (Major Program). Canadian Cancer Society Research Institute (CCSRI). \$36,992,837, 2010-2015.

**Milosevic M**. Canadian Partnership for Quality Radiotherapy (CPQR). Canadian Partnership Against Cancer (CPAC). \$200, 000, 2010-2012.

Mittman N, **Barbera L**, Krahn M, Peacock S, Leighl N, Hoch J, Earle C. Creation of a reference set of the health preference values in oncology: a pilot study using the Cancer Care Ontario electronic kiosk system. Canadian Centre for Applied Research in Cancer Control. \$10,000, 2011-2012.

Moeinedin FM, **Wiljer D**. Improving transition of care among cancer patients, general practitioner and oncologist through the electronic means of communication. Master's Award: Frederick Banting and Charles Best Canada Graduate Scholarships, Canadian Institutes for Healthcare Research (CIHR). \$17,500, 2010 – 2011.

Narod SA, **Bristow RG**, Nam RK, Trachtenberg J. Clinical Course of BRCA2-associated prostate cancer. Canadian Institute of Health Research (CIHR). \$154,377/yr, 2010-2013.

Neel B, Siu L, Onetto N, Ghai S, Murphy K, **Haider M, Jaffray D**, Shaw P, Asa S, **Tsao M**, Kamel-Reid S, McPherson J, Stein L, Jurisica I, Moore M, Oza A, Siu L, Shepherd F, Leighl N, Liu G, Chen E, Hedley D, Bedard P, Minden M, Stambolic V, **Wouters B**, Reedijk M, **Liu FF, Bristow R**, Hotte S, Goss G, Winquist E. Personalized medicine with targeted and genome-wide sequencing. Cancer Care Ontario. \$1,182,500, 2011- 2016.

Neel B, **Wouters B**, Marcotte R, Moffatt J. Role of PTP1B in Her2+ breast cancer. Canadian Institute for Health Research (CIHR). \$174,010, 2010-2015.

**Nyhof-Young J**, Kalcevich C, Tullio-Pow S. Reducing ‘Gown-Frown’: Exploring the requirements for clothing for cancer patients undergoing outpatient imaging, chemotherapy and radiation. Patient and Family Donation. \$15,000, 2010- 2011.

**Nyhof-Young J**. The virtual experience in radiation oncology (VERO): Website hosting, marketing and dissemination grant. Pfizer Medical Education Grant for Health Care Quality Improvement & Education. \$2,000, 2010-2011.

**Nyhof-Young J**, Kinoshita K, Loo J, Vincent J. Implementation and evaluation of an experiential 'elective' in spirituality for preclerkship medical students at the University of Toronto. Education Development Fund, University of Toronto. \$8,543, 2010- 2012.

O’Grady L, Jadad A, Urowitz S, **Wiljer D**. Mutual engagement of patients and providers: integrating knowledge through participatory design. Meetings, Planning and Dissemination Grant: End of Grant Knowledge Supplement, Canadian Institutes for Healthcare Research (CIHR). \$24,000, 2010 – 2011.

Oza A, **Milosevic M**. Ontario Institute for Cancer Research (OICR) Translational Team Award to support high impact clinical trials. Ontario Institute for Cancer Research (OICR). \$1,000,000, 2011-2014.

**Paszat L, Rakovitch E**, Holloway C, Hanna W, Seth A, Murphy J, Kupets R, Baxter N, Tinmouth J, Hsieh E, Fleshner N, Chiarelli A, Zauber A, Vanballegooijen M, Lansdorp-Vogelaar I, Knight J, Andrulis I. Screen-Net Ontario: The Ontario Cancer Screening Research Network. Cancer Care Ontario ACRU, \$236,000, 2011-2016.

**Paszat L**. Screen-Net Ontario: The Ontario Cancer Screening Research Network. Applied Cancer Research Unit (Research Committee of the Board of Directors of Cancer Care Ontario). \$1,182,500, 2011–2016.

**Pignol JP**, Karshafian R, **Czarnota G**. Sub-project 4: Novel therapeutic ultrasound and microbubble therapy. \$521,550, 2010 – 2013. A component of a programmatic grant: **Czarnota G**, Kolios MC, **Brock K**, Karshafian R, **Rakovitch E**, Stanisz G, **Pignol JP**. Ultrasound for Cancer Therapy. CIHR/Terry Fox. \$2,704,743, 2010 – 2013.

**Pignol JP**, Olivotto I. Long term outcomes of a multicentre controlled clinical trial of breast irradiation using Intensity-Modulated Radiation Therapy. Canadian Institutes of Health Research (CIHR). \$143,917, 2011 – 2013.

**Purdie TG, Sharpe MB, Dinniwell RE, Letourneau D, Jaffray DA**. Automating adjuvant radiation therapy in patients with breast cancer. Canadian Breast Cancer Foundation (CBCF). \$282,848, 2010-2013.

Quan ML, Baxter N, Hanna W, **Paszat L, Rakovitch E**, Saad R, Sawka C, Wright F, Warner E. Should all young women (<35) with breast cancer be treated with mastectomy? Canadian Breast Cancer Foundation (CBCF). \$287,575, 2008-2011.

**Quon H, Loblaw DA, Cheung P, Vesprini D, Chung H, Pang G.** Phase I study of dose-escalated hypofractionated radiotherapy for low- and intermediate-risk prostate cancer. CARO-ACURA. \$28,300, 2010-2012.

**Rakovitch E,** Yaffe M, Narod S, Causer P, **Vesprini D,** Eisen A, Taylor C. The association of mammographic density and breast cancer following treatment for ductal carcinoma in situ. Canadian Breast Cancer Foundation – Ontario Chapter (CBCF). \$277,705, 2011-2014.

**Rakovitch E.** Towards reducing over – treatment of DCIS optimizing molecular techniques in DCIS. Strategic plan initiative, ductal carcinoma in situ project. Sunnybrook Research Institute (SPI-DCIS-SRI). Ontario Institute for Cancer Research (OICR). \$307,870, 2011-2014.

**Rosewall T,** Butler A, **Higgins J,** Slapnicar E, **Wiljer D.** Meetings, planning & dissemination grant: The 8th Annual Toronto Radiation Medicine Conference; RTi3: Inquire, Inspire & Innovate. Canadian Institutes of Health Research. \$20,000, 2011-2012.

**Rowlands JA,** Barzda V, Cunningham I, Curiel L, Drangova M, Farncombe T, Hajian A, Holdsworth D, Karim K, **Kim J,** Landry S, Matsuura N, Phenix C, Pichardo S, Reznik A, Robert N, Rubel O, Sugisaki M, Yaffe M, Zehbe I, Zhao W. Ontario Network for Advanced Medical Imaging Detectors. Ontario Research Fund. \$6,500,000, 2010-2015.

**Sahgal A, Paszat L,** Perry J, **Tsao M,** Mainprize T, **Laperriere N.** Factors influencing the outcomes of low grade astrocytoma: a population based study. Brain Tumor Foundation of Canada. \$9,382, 2010-present.

Seow H, Krahn M, Brouwers M, Sussman J, Fassbender K, **Barbera L,** Lawson B, Sutradhar R, Burge F, Fainsinger R, Peacock S. The organization delivery and costs of end-of-life cancer care: the potential of homecare nursing in 4 provinces. Canadian Cancer Society Research Institute (CCSRI). \$671,515, 2011-2014.

Sivaloganathan S, Kohandel M, **Hodgson D, Sharpe M.** Effective estimation of second cancer risks and resultant possible improvements of treatment protocols. Canadian Institutes of Health Research – NSERC CHRP. \$468,819, 2011-2014.

**Sun A.** A Feasibility Study of Hypoxia Imaging in Patients with Lung Cancer using Positron Emission Tomography (PET) with 18F-Fluoroazomycin Arabinoside (18F-FAZA). Ontario Research Fund, Ontario Consortium for Adaptive Interventions in Oncology and GE Healthcare Systems. \$420,000.00, 2011-present.

Sur R, Wright J, Tsakiridis T, Corbett T, Okawara G, Whelan T, Pond G, Rachakonda R, Falkson CB, **Ung Y.** A phase III study comparing the proportion of lung cancer patients with symptomatic and quality of life improvements receiving external beam radiation with or without high dose rate intraluminal brachytherapy. Canadian Cancer Society Research Institute (CCSRI). \$345,966, 2010-2014.

**Szumacher E,** Maamoun J, Feldman-Stewart D, Fitch M, DasGupta T, Court A, Kiss A. Investigating the opinions of health care providers involved in treatment of patients with prostate cancer in the province of Ontario, regarding the informational needs of non-metastatic post-prostatectomy cancer patients referred for

adjuvant or salvage radiotherapy (a multidisciplinary approach) – Unrestricted Education Grant. Abbott Laboratories. \$20,000, 2010-2011.

Tullio-Pow S, **Nyhof-Young J**, Schaefer K. Functional and inclusive: a field test of post mastectomy sleepwear. Ontario Partnership for Innovation in Commercialization, Canadian Intellectual Property Office, Government of Canada. \$10,000, 2010-2011.

Umpathy K, **Jaffray DA**, Krishnan S, Nanthakumar K. Studying dynamic electrical conduction pathways in understanding human ventricular fibrillation. Canadian Institute of Health Research (CIHR) \$274,860, 2010-2013.

**Vesprini D**, **Loblaw A**, Klotz L, Nam R, Narod R, Venkateswaran V. Utility of incorporating genetic variants in active surveillance for low risk prostate cancer. ACURA Uro-Oncologic Radiation Award (ACURA). \$34,653, 2010-2012.

**Vesprini D**. Canadian BRCA1/2 Prostate Cancer Network. Prostate Cancer Canada Research Partnership. \$20,000/year, 2010-2015.

**Wiljer D**, Bender J, **Gospodarowicz M**. Testicular cancer survivorship needs. PMH Testicular Cancer Site Group. \$5,000, 2010-2011.

**Wiljer D**, Catton P, **Jaffray D**, Harnett N, Montgomery F, **Gospodarowicz M**. Image-guided radiation therapy education proposal: Adapt, engage, and connect. Elekta, Inc. \$1,900,000, 2010-2013.

Wong KSR, Bayley A, **Brierley J**, **Cummings B**, **Dinniwell R**, Easson A, J, Kennedy, Le L, **Ringash J**, Jezioranski J, **Kim J**. A Phase I/II study of high dose rate brachytherapy for the palliation of rectal cancer. Canadian Radiation Oncology Foundation/Sanofi – Aventis Research Innovation Award (CASARIA). \$20,000, 2010-2011.

**Wouters B**, Neel B, McPherson J, Dick J, O'Brien C, Shaw P, Hudson T. Pop-Cure. Pfizer, OICR. OCI collaboration in Colon Cancer, Pfizer. \$6,901,162, 2010-2013.

Yaffe M, Martel A, Narod S, Plewes D, Pritchard K, **Rakovitch E**, Seth A, Warner E, Bronskill M, Burns P, Chopra R, Clarke G, **Czarnota G**, Dent R, Fenster A, Goertz D, **Haider M**, Hynynen K, Jong R, Kahn H, Mainprize J, Matsuura N, Quan ML, Reilly R, **Spayne J**, Trudeau M, Valliant J, Zubovits J. An integrated breast cancer research biomatrix. Canada Foundation for Innovation (CFI). \$768,938, 2010-2014.

Zhao W, **Rowlands JA**. Flat panel X-ray imaging detector with avalanche gain. National Institutes of Health (NIH) Operating Grant. \$1,750,000, 2010-2014.

## Publications

### Peer-Reviewed Publications

Aerts H, Dekker A, Lavoie C, Green S, Michielsen J, De Ruyscher D, **Vines D**, Sun A. Identification of residual metabolic-active areas within lung tumors using a pre-radiotherapy FDG-PET-CT scan. *Int J Radiat Oncol Biol Phys* 78(3) Supplement 1: S510-511, 2010.

Afsharpour H, **Pignol JP, Keller B**, Carrier JF, Reniers B, Verhaegen F, Beaulieu L. Influence of breast composition and interseed attenuation in dose calculations for post-implant assessment of permanent breast  $^{103}\text{Pd}$  seed implant. *Phys Med Biol* 55(16): 4547-4561, 2010.

Al-Hussaini H, Hogg D, Blackstein ME, **O'Sullivan B, Catton CN, Chung PW**, Griffin AM, **Hodgson D**, Hopyan S, Kandel R, Ferguson PC, Wunder JS, Gupta AA. Clinical features, treatment, and outcome in 102 adult and pediatric patients with localized high-grade synovial sarcoma. *Sarcoma* 2011: 231789 (published online April 14, 2011).

Al-Mayah A, Moseley J, Hunter S, Velec M, Chau L, **Breen SL, Brock KK**. Biomechanical-based image registration for head and neck radiation treatment. *Phys Med Biol* 55(21): 6491-6500, 2010.

Al-Mayah A, Moseley J, Velec M, Hunter S, **Brock KK**. Deformable image registration of heterogeneous human lung incorporating the bronchial tree. *Med Phys* 37(9): 4560-4571, 2010.

Al Rashid ST, Harding S, Law C, Coackley C, **Bristow RG**. Chromatin-binding of p53 with ATM and 53BP1 in response to DNA damage. *Radiation Res* 175(5):588-98, 2011.

Alajez N, Biswas D, Sutherland R, Pintilie M, Minden M, Messner H, **Fyles A, Gospodarowicz M, Liu F-F**. The effect of local radiotherapy on circulating CD34<sup>+</sup> cells in breast cancer patients. *Radiother Oncol* (published online February 11, 2011).

Alajez N, Hui A, Shi W, Ito E, Yue S, Ng R, **O'Sullivan B, Liu F-F**. Enhancer of Zeste Homologue 2 (EZH2) is overexpressed in recurrent nasopharyngeal carcinoma and is regulated by miR-26a, miR-101, and miR-98. *Cell Death Dis* 1(10): e85, 2010.

Alajez N, Lenarduzzi M, Ito E, Hui A, Shi W, Bruce J, Yue S, **Huang SH, Xu W, Waldron J, O'Sullivan B, Liu F-F**. miR-218 suppresses nasopharyngeal cancer progression through downregulation of Survivin and the SLIT2-ROBO1 pathway. *Cancer Res* 71(6): 2381-2391, 2011.

Alharbi O, Rabeneck L, **Paszat L**, Wijesundera DN, Sutradhar R, Yun L, Vinden CM, Tinmouth J. Factors associated with colonoscopy performed in non hospital settings. *Can J Gastroenterol* 24(7): 419-424, 2010.

Alibhai SM, Breunis H, Timilshina N, Johnston C, Tomlinson G, Tannock I, Krahn M, Fleshner NE, **Warde P**, Canning SD, Klotz L, Naglie G. Impact of androgen-deprivation therapy on physical function and quality of life in men with nonmetastatic prostate cancer. *J Clin Oncol* 28(34): 5038-5045, 2010.

Alibhai SM, Duong-Hua M, Cheung AM, Sutradhar R, **Warde P**, Fleshner NE, **Paszat L**. Fracture types and risk factors in men with prostate cancer on androgen deprivation therapy: a matched cohort study of 19,079 men. *J Urol* 184(3): 918-923, 2010.

Alibhai SM, Mahmoud S, Hussain F, Naglie G, Tannock I, Tomlinson G, Fleshner N, Krahn M, **Warde P**, Klotz L, Breunis H, Leach M, Canning SD. Levels of sex hormones have limited effect on cognition in older men with or without prostate cancer. *Crit Rev Oncol Hematol* 73(2):167-175, 2010.

Alonzo-Proulx O, Packard N, Boone JM, Al-Mayah A, **Brock KK**, Shen SZ, Yaffe MJ. Validation of a method for measuring the volumetric breast density from digital mammograms. *Phys Med Biol* 55(11): 3027-3044, 2010.

Amin MN, **Heaton R**, Norrlinger B, **Islam MK**. Small field electron beam dosimetry using MOSFET detector. *J Appl Clin Med Phys* 12(1): 3267, 2010.

Angelini P, Hawkins C, **Laperriere N**, Bouffet E, Bartels U. Post-mortem examinations in pontine glioma: Challenges and chances. *J Neurooncol* 101(1): 75-81, 2011.

Apatu E, **Wiljer D**. A drive through Web 2.0: An exploration of driving safety promotion on Facebook.on practice. Rollins School of Public Health, Emory University. Health Promotion Praticce. 2011. PMID 21540197.

Artan Y, **Haider MA**, Langer DL, van der Kwast TH, Evans AJ, Yang Y, Wernick MN, Trachtenberg J, Yetik IS. Prostate cancer localization with multispectral MRI using cost-sensitive support vector machines and conditional random fields. *IEEE Trans Image Process* 19(9): 2444-2455, 2010.

Ayyappan AP, Jhaveri KS, **Haider MA**. Radiological assessment of mesenteric and retroperitoneal cysts in adults: is there a role for chemical shift MRI? *Clin Imaging* 35(2): 127-132, 2011.

**Barbera L**, Dudgeon D, Howell D, Seow H, Atzema C, Earle C, Husain A, King S, Liu Y, Sussman J, Sutradhar R. Sympton burden and performance status in a population-based cohort of ambulatory cancer patients. *Cancer* 116(24): 5767-5776, 2010.

**Barbera L**, Elit L, Krzyzanowska M, Saskin R, Bierman A. End of life care for women with gynecologic cancers. *Gynecol Oncol* 118(2): 196-201, 2010.

**Barnes EA**, Breen D, Culleton S, Zhang L, Kamra J, **Tsao M**, **Balogh J**. Palliative radiotherapy for non-melanoma skin cancer. *Clin Oncol* 22(10): 844-849, 2010.

Basran PS, **Balogh J**, **Poon I**, **MacKenzie RG**, Chan T. On comparing the quality of head and neck IMRT plans delivered with two different linear accelerator manufacturers. *Med Dosim* 36(1): 75-80, 2011.

Baxi S, **Catton C**. Practice patterns for post-prostatectomy hormonal therapy amongst Canadian radiation oncologists. *Can J Urol* 17(6): 5436-5441, 2010.

Baxter NN, Sutradhar R, Forbes SS, **Paszat LF**, Saskin R, Rabeneck L. Analysis of administrative data finds endoscopist quality measures associated with postcolonoscopy colorectal cancer. *Gastroenterology* 140(1): 65-72, 2011.

Bebb G, Smith C, Rorke S, Boland W, Nicacio L, Sukhoo R, **Brade A**. Phase I clinical trial of the anti-EGFR monoclonal antibody nimotuzumab with concurrent external thoracic radiotherapy in Canadian patients diagnosed with stage IIb, III or IV non-small cell lung cancer unsuitable for radical therapy. *Cancer Chemother Pharmacol* 67(4): 837-845, 2011.

Bedi H, Kwong J, **Chow E**. Metastatic cancer: Symptom cluster and gender differences research in patients with metastatic cancer. *J Alt Med Res* 2(3): 275-296, 2010.

Benedict SH, Yenice KM, Followill D, Galvin JM, Hinson W, Kavanagh B, Keall P, Lovelock M, Meeks S, Papiez L, **Purdie T**, Sadagopan R, Schell MC, Salter B, Schlesinger DJ, Shiu AS, Solberg T, Song DY, Stieber V, Timmerman R, Tome WA, Verellen D, Wang L, Yin FF. Stereotactic body radiation therapy: The report of AAPM Task Group 101. *Med Phys* 37(8): 4078-4101, 2010.

**Bissonnette JP**, Medlam G. Trend analysis of radiation therapy incidents over seven years. *Radiother Oncol* 96(1): 139-144, 2010.

**Bolderston A**, Lewis D, **Chai M**. The concept of caring: Perceptions of radiation therapists. *Radiography Journal* 16(3): 198-208, 2010.

**Bolderston A**, Palmer C, Tan K, Feuz C. Supporting clinical teachers: Developing radiation therapists' preceptorship skills. *JMIRS* 41(4): 201-206, 2010.

Bolla M, Van Tienhoven G, **Warde P**, Dubois JB, Mirimanoff RO, Storme G, Bernier J, Kuten A, Sternberg C, Billiet I, Torecilla JL, Pfeffer R, Cutajar CL, Van der kwast T, Collette L. External irradiation with or without long-term androgen suppression for prostate cancer with high metastatic risk: 10-year results of an EORTC randomized study. *Lancet Oncol* 11(11): 1066-1073, 2010.

Bootsma GJ, Verhaegen F, **Jaffray D**. The effects of compensator and imaging geometry on the distribution of x-ray scatter in CBCT. *Med Phys* 38(2): 897-914, 2011.

Bracken J, Driscoll, B, **Coolens, C**. Volumetric 4D computed tomography with a 320 multi-slice scanner. *Med Phys* 37(7): 3097, 2010.

**Brade A**, **Bezjak A**, MacRae R, Laurie S, **Sun A**, **Cho J**, Leighl N, Pearson S, Southwood B, Wang L, McGill S, Iscoe N, Shepherd FA. Phase I trial of radiation with concurrent and consolidation pemetrexed and cisplatin in patients with unresectable stage IIIA/B non-small lung cancer. *Int J Radiat Oncol Biol Phys* 79(5): 1395-1401, 2011.

**Breen SL**, **Zhang B**. Audit of an automated checklist for quality control of radiotherapy treatment plans. *Radiother Oncol* 97(3): 579-584, 2010.

**Brierley JD**, **Dawson LA**, **Bayley A**, Sampson E, Scott S, Moseley J, **Craig T**, **Cummings BJ**, **Dinniwell R**, **Kim JJ**, **Ringash J**, **Wong R**, **Brock KK**. Rectal motion in patients receiving preoperative radiotherapy for carcinoma of the rectum. *Int J Radiat Oncol Biol Phys* 80(1): 97-102, 2011.

**Brock KK**, **Dawson LA**. Adaptive management of liver cancer radiotherapy. *Semin Radiat Oncol* 20(2): 107-115, 2010.

Brundage M, Bass B, Davidson J, Queenan J, **Bezjak A, Ringash J**, Wilkinson A, Feldman-Stewart D. Patterns of reporting health-related quality of life outcomes in randomized clinical trials: Implications for clinicians and quality of life researchers. *Qual Life Res* 20(5): 653-664, 2011.

Cai Z, **Pignol JP**, Chan C, Reilly RM. Cellular dosimetry using the Geant4 Monte Carlo toolkit. *J Nucl Med* 51: 1489, 2010.

Caissie A, Culleton S, Nguyen J, Zhang L, Zeng L, **Holden L**, Dennis K, Chan E, Jon F, **Tsao M, Danjoux C, Sahgal A, Barnes E**, Koo K, **Chow E**. Quality of life scores in patients with advanced cancer referred for palliative radiotherapy. *Support Care Cancer* (published online May 3 2011).

Campbell SAM, **Poon I**, Markel D, Vena D, Higgins K, Enepekides D, Wong J, Allo G, Morgen E, Khaoum N, Smith B, **Balogh J, MacKenzie R**, Davidson J, Wang D, Yaffe M. The evaluation of microscopic disease in oral tongue cancer using whole mount histopathological techniques: Implications for the management of head and neck cancers. *Int J Radiat Oncol Biol Phys* (published online February 5, 2011).

Canil C, Hotte S, Mayhew LA, Waldron T, Winkquist E and Members of the Genitourinary Cancer Disease Site Group. EBS 3-8-1, Section 3. Interferon-alfa in the treatment of patients with inoperable locally advanced or metastatic renal cell cancer: EBS development methods and external review process, May 2010.

**Carlone M**. Compensation of missed fractions without knowledge of radiobiological parameters. *Med Dosim* (published online March 10, 2011).

**Carlone M**, Nahum A, Stavrev P. TCP modelling – Why is it important? *Acta Oncol* 49(8): 1205, 2010.

Case RB, **Moseley DJ**, Sonke J J, Eccles CL, **Dinniwell RE, Kim J, Bezjak A, Milosevic M, Brock KK, Dawson LA**. Interfraction and Intrafraction Changes in Amplitude of Breathing Motion in Stereotactic Liver Radiotherapy. *Int J Radiat Oncol Biol Phys* 77(3):918-25, 2010.

**Cashell A**. Radiation therapists' perspectives of the role of reflection in clinical practice. *J Radiother Pract* 9(3): 131-141, 2010.

Chan AJ, **Islam MK, Rosewall T, Jaffray DA**, Easty AC, Cafazzo JA. The use of human factors methods to identify and mitigate safety issues in radiation therapy. *Radiother Oncol* 97(3): 596-600, 2010.

Chalmers AJ, Lakshman M, Chan N, **Bristow RG**. Poly (ADP-ribose) polymerase inhibition as a model for synthetic lethality in developing radiation oncology targets. *Sem Rad Onc* 20(4): 274-81, 2010.

Chan E, Jon F, **Holden L**, Dennis K, **Chow E**. Pathological fracture of the tibia in a patient with invasive ductal carcinoma of the breast: A case report of a rare finding. *J Pain Manage* 4(4), 2011.

Chan EK, Fung S, **Gospodarowicz M, Hodgson D, Wells W, Sun A, Pintile M, Tsang RW**. Palliation by low-dose local radiation therapy for indolent non-Hodgkin lymphoma. *Int J Radiat Oncol Biol Phys* (published online December 16, 2010).



Chan N, **Bristow RG**. Contextual Synthetic Lethality/Loss of Heterozygosity: Tumor Hypoxia and Modification of DNA Repair. *Clin Cancer Res* 16(18):4553-60, 2010.

Chan N, Pires I, Benkocova Z, Coackley C, Bhogal N, Lakshman M, Gottipati P, Oliver J, Helleday T, Hammond E, **Bristow RGF**. Contextual Synthetic Lethality of Cancer Cell Kill Based on the Tumor Microenvironment, *Cancer Research* 70(20):8045-54, 2010.

Chang DT, Swaminath A, Kozak M, Weintraub J, Koong AC, **Kim J, Dinniwell R, Brierley J, Kavanagh BD, Dawson LA**, Schefter TE. Stereotactic body radiotherapy for colorectal liver metastases: A pooled analysis. *Cancer* (published online March 22, 2011).

Chattopadhyay N, Cai Z, **Pignol JP, Keller B**, Lechtman E, Bendayan R, Reilly RM. Design and characterization of HER-2-targeted gold nanoparticles for enhanced X-radiation treatment of locally advanced breast cancer (LABC). *Mol Pharm* 7(6): 2194-2206, 2010.

Chithrani D, Jelveh S, Jalali F, van Prooijen M, Allen C, **Bristow R, Hill RP, Jaffray D**. Gold nanoparticles as radiation sensitizers in cancer therapy. *Radiat Res*. 173(6): p. 719-28, 2010.

**Cho BC, Bezjak A, Dawson LA**. Image guidance in non-small cell lung cancer. *Semin Radiat Oncol* 20(3): 164-170, 2010.

**Cho Y, Zhang B**, Bernstein M, **Sahgal A**. Brain metastases: gamma knife technology for radiosurgery. *J Pain Manage* 4(2): 211-222, 2011.

Choo C, Mamedov A, Chung M, Choo R, Kiss A, **Danjoux C**. Vitamin D insufficiency is common in non-metastatic prostate cancer patients. *Nutr Res* 31(1): 21-26, 2011.

Choo R, Long J, Gray R, **Morton G**, Gardner S, **Danjoux C**. Prospective survey of sexual function among patients with clinically localized prostate cancer referred for definitive radiotherapy and the impact of radiotherapy on sexual function. *Support Care Cancer* 18(6): 715-722, 2010.

Choudhury A, Nelson LD, Teo MTW, Chilka S, Bhattarai S, Johnston C, Elliott F, Lowery J, McBurney H, Taylor C, Churchman M, Bentley J, Knowles MA, Harnden P, **Bristow RG**, Bishop DT, Kiltie AE. MRE11 Expression is Predictive of Cause-Specific Survival Following Radical Radiotherapy for Muscle Invasive Bladder Cancer. *Cancer Res* 70(18):7017-26, 2010.

**Chow E**, Hoskin P, Mitera G, Zeng L, Lutz S, Roos D, Hahn C, van der Linden Y, Hartsell W, Kumar E, on behalf of the International Bone Metastases Consensus Working Party. Update of the international consensus on palliative radiotherapy endpoints for future clinical trials in bone metastases. *Int J Radiat Oncol Biol Phys* (published online April 12, 2011).

**Chow E**, James J, Barsevick A, Hartsell W, Ratcliffe S, Scarantino C, Ivker R, Suh J, Petersen I, Konski A, Demas W, Bruner D. Confirmatory factor analysis of Brief Pain Inventory (BPI) functional interference clusters in patients with bone metastases. *J Pain Manage* 3(3): 247-253, 2010.

**Chow JCL**. A performance evaluation on Monte Carlo simulation for radiation dosimetry using cell processor. *J Comp Meth Sci Eng* 11(1): 1-12, 2011.

**Chow JCL**. Depth dose dependence of the mouse bone using kilovoltage photon beams: A Monte Carlo study for small-animal irradiation. *Rad Phys Chem* 79(5): 567-574, 2010.

**Chow JCL**, Jiang R, Leung MKK. Dosimetry of oblique tangential photon beams calculated by superposition/convolution algorithms: A Monte Carlo evaluation. *J Appl Clin Med Phys* 12(1): 3424, 2010.

**Chow JCL**, Leung MKK, **Lindsay PE**, **Jaffray DA**. Dosimetric variation due to the photon beam energy in the small-animal irradiation: A Monte Carlo study. *Med Phys* 37(10): 5322-5329, 2010.

**Chow JCL**, Markel D, Jiang R. Calculation of normal tissue complication probability using Gaussian error function model. *Med Phys* 37(9): 4924-4929, 2010.

**Chow JCL**, Owraangi AM. Monte Carlo study on mucosal dose in oral and nasal cavity using photon beams with small field. *J Radiother Pract* (published online January 2011).  
Choiw jcl owraangi am

**Chung HT**, Noworolski SM, Kurhanewicz J, Weinberg V, Carroll PR, Roach M. A pilot study of endorectal MRI and MR spectroscopic imaging (MRSI) changes with dutasteride in patients with low-risk prostate cancer. *BJU Int* (published online March 24, 2011).

**Chung P**, **Warde P**. Stage I Seminoma: adjuvant treatment is effective but is it necessary? *J Natl Cancer Inst* 103(3): 194-196, 2011.

**Chung P**, **Warde P**. Testicular cancer: Seminoma. *Clin Evid* (published online January 25, 2011).

Claessens T, Weppler SA, van Geel M, Creytens D, Vreeburg M, **Wouters BG**, van Steensel MA: Neuroendocrine carcinoma in a patient with Birt-Hogg-Dube syndrome. *Nat Rev Urol* 2010 Oct;7(10):583-7.7(10):583, 2010.

Clarkson R, **Lindsay PE**, Ansell S, Wilson G, Jelveh S, **Hill RP**, **Jaffray DA**. Characterization of image quality and image-guidance performance of a preclinical microirradiator. *Med Phys* 38(2): 845-856, 2011.

Coate LE, Massey C, **Hope A**, Sacher A, Barrett K, Pierre A, Leighl N, **Brade A**, de Perrot M, Waddell T, Liu G, Feld R, Burkes R, **Cho BCJ**, Darling G, **Sun A**, Keshavjee S, **Bezjak A**, Shepherd FA. Treatment of the elderly when cure is the goal: The influence of age on treatment selection and efficacy for stage III non-small cell lung cancer. *J Thorac Oncol* 6(3): 537-544, 2011.

Coburn N, Przybysz, **Barbera L**, **Hodgson DC**, Laupacis A, Law C. Evaluation of CT and MRI scanning among cancer patients in Ontario. *Clin Imaging* 35(4): 301-308, 2011.

Coburn NG, Lourenco LG, Rossi SE, Gunraj N, Mahar AL, Helyer LK, Law C, Rabeneck L, **Paszat L**. Management of gastric cancer in Ontario. *J Surg Oncol* 102(1): 54-63, 2010.

**Coolens C**, **Dawson LA**. Advances in imaging for liver cancer radiotherapy. *Imaging in Medicine* 2(1): 29-39, 2010.

Crook J, Patil N, Ma C, **McLean M**, Borg J. Magnetic resonance imaging-defined treatment margins in Iodine-125 prostate brachytherapy. *Int J Radiat Oncol Biol Phys* 77(4): 1079-1084, 2010.

Culleton S, Dennis K, Koo K, Zhang L, Zeng L, Kwong J, Nguyen J, **Jon F, Holden L, Barnes E, Tsao M, Danjoux C, Sahgal A, Chow E.** Correlation of the palliative performance scale with the Karnofsky performance status in an outpatient palliative radiotherapy clinic. *J Pain Manage* 4(4), 2011.

Culleton S, Dennis K, Koo K, Zhang L, Zeng L, Nguyen J, **Jon F, Holden L, Barnes E, Tsao M, Danjoux C, Sahgal A, Chow E.** Gender differences in symptom presentations among patients with bone metastases in gender-specific and gender-neutral primary cancers. *Wor J Onco* 2(3): 102-112, 2011.

Culleton S, Kwok S, **Chow E.** Conventional radiation treatment and bone metastases. *J Pain Manage* 4(1): 23-32, 2011.

D'Alimonte L, **Sinclair E**, Seed S. Orthovoltage energies for palliative care in the 21st century: Is there a need? *Radiography* 17(1): 84-87, 2011.

D'Souza D, Baldassare F, **Morton G**, Falkson C, **Batchelar D.** Imaging Technologies for High Dose Rate Brachytherapy for Cervical Cancer: A Systematic Review. *Clin Oncol (R Coll Radiol)* (published online March 25, 2011).

Dahele M, Fehlings M, **Sahgal A.** Stereotactic radiotherapy: An emerging treatment for spinal metastases. *Can J Neurol Sci* 38(2): 247-250, 2011.

Dahele M, Freeman M, Pearson S, **Brade A, Cho JBC, Hope A, Franks K, Purdie T, Bissonnette J-P, Jaffray DA, Bezjak A, Sun A.** Early metabolic response evaluation after stereotactic radiotherapy for lung cancer: Pilot experience with 18F-fluorodeoxyglucose positron emission tomography-computed tomography. *Clin Oncol (R Coll Radiol)* 23(5): 359-363, 2011.

**Davey P**, Smith J, Ennis M. Randomized comparison of whole brain radiotherapy, 20 Gy in four daily fractions versus 40 Gy in 20 twice-daily fractions, for brain metastases. *Int J Radiat Oncol Biol Phys* 78(5): 1605-1606, 2010.

Davidson MTM, Blake SJ, **Batchelar DL, Cheung P, Mah K.** Assessing the role of volumetric modulated arc therapy (VMAT) relative to IMRT and helical tomotherapy in the management of localized, locally advanced, and post-operative prostate cancer. *Int J Radiat Oncol Biol Phys* 78(3) Supplement 1: S720, 2010.

de Moor JS, Puleo E, Ford JS, Greenberg M, **Hodgson DC**, Tyc VL, Ostroff J, Diller LR, Gurmankin Levy A, Sprunck-Harrild K, Emmons KM. Disseminating a smoking cessation intervention to childhood and young adult cancer survivors: Baseline characteristics and study design of the partnership for health-2 study. *BMC Cancer* 11:165, 2011.

De Ruysscher D, Severin D, **Barnes E**, Baumann M, **Bristow R**, Gregoire V, Holscher T, Veninga T, Polanski A, van Veen E-B, Verfaillie C, Heeren G, Damaraju S, Just U, Haustermans K. First report on the patient database for the identification of the genetic pathways involved in patients over-reacting to radiotherapy: GENEPI-II. *Radiother Oncol* 97(1): 36-39, 2010.

Dennis K, **Chow E**, Roos D, DeAngelis C, Hartsell W, van de Linden Y, Hoskin P. Should bone metastases causing neuropathic pain be treated with single dose radiotherapy? *Clin Oncol (R Coll Radiol)* (published online April 12, 2011).

Dennis K, Zhang L, **Holden L**, Jon F, **Barnes E**, **Tsao M**, **Danjoux C**, **Sahgal A**, Zeng L, Koo K, Khan L, Caissie A, **Chow E**. Functional interference due to pain following palliative radiotherapy for bone metastases among patients in their last three months of life. *Wor J Onc* 2(2): 47-52, 2011.

Dent RA, **Bristow RG**. In Situ Repair Assays as Guides to Personalized Breast Cancer Cehmotherapeutics: Ready for Prime Time? *J Clin Oncol* 29(16):2130-2, 2011.

Dickie CI, Griffin AM, Parent AL, **Chung PW**, **Catton CN**, Svensson J, Ferguson PC, Wunder JS, Bell RS, **Sharpe MB**, **O'Sullivan B**. The relationship between local recurrence and radiotherapy treatment volume for soft tissue sarcomas treated with external beam radiotherapy and function preservation surgery. *Int J Radiat Oncol Biol Phys* (published online June 1, 2011).

Dickie CI, Parent AL, **Chung PWM**, **Catton CN**, **Craig T**, Griffin AM, Panzarella T, Ferguson PC, Wunder JS, Bell RS, **Sharpe MB**, **O'Sullivan B**. Measuring interfractional and intrafractional motion with cone beam computed tomography and an optical localization system for lower extremity soft tissue sarcoma patients treated with preoperative intensity-modulated radiation therapy. *Int J Radiat Oncol Biol Phys* 78(5): 1437-1444, 2010.

Driscoll B, **Keller H**, **Coolens C**. Quantification and validation of DCE-CT using a novel dynamic flow phantom. *AAPM Proceedings XVIth ICCR*: 50, 2010.

Easaw JC, Mason WP, Perry J, **Laperriere N**, Eisenstat DD, Del Maestro R, Belanger K, Fulton D, Macdonald D, for the Canadian Glioblastoma Recommendations Committee. Canadian recommendations for the treatment of recurrent of progressive glioblastoma multiforme. *Curr Oncol* 18(3): e126-e136, 2011.

Eccles C, Patel R, **Simeonov AK**, Lockwood G, **Haider M**, **Dawson LA**. Comparison of liver tumor motion with and without abdominal compression using cine-MRI. *Int J Radiat Oncol Biol Phys* 79(2), 602–608, 2011.

Eccles CL, **Dawson LA**, Moseley JL, **Brock KK**. Interfraction liver shape variability and impact on GTV position during liver stereotactic radiotherapy using abdominal compression. *Int J Radiat Oncol Biol Phys* 80(3): 938-946, 2011.

Edelstein K, D'Agostino N, Bernstein LJ, Nathan PC, Greenberg ML, **Hodgson D**, **Millar BA**, **Laperriere N**, Spiegler BJ. Long-term neurocognitive outcomes in young adult survivors of childhood acute lymphoblastic leukemia. *J Pediatr Hematol Oncol* (published online June 3, 2011).

Edelstein K, Speigler BJ, Fung S, Panzarella T, Mabbott DJ, Jewitt N, D'Agostino NM, **Laperriere N**, Tabori U, Bouffet E, Mason WP, **Hodgson DC**. Early aging in adult survivors of Ccildhood medulloblastoma: Very long term neurocognitive, functional, and physical outcomes. *Neuro Oncol* 13(5): 536-545, 2011.

Elkin EB, Klem ML, Gonzales AM, Ishill NM, **Hodgson D**, Ng AK, Marks LB, Weidhaas J, Freedman GM, Miller RC, Constine LS, Myrehaug S, Yahalom J. Characteristics and outcomes of breast cancer in women with and without a history of radiation for Hodgkin's Lymphoma: A multi-institutional, matched cohort study. *J Clin Oncol* 29(18): 2466-2473, 2011.

Elmi M, Ko MA, Gupta A, **Chung P**, Keshavjee S. Primary Tracheal Ewing's Sarcoma. *Ann Thorac Surg* 90(4): 1349-1352, 2010.

Farhat G, Yang V, **Czarnota G**, Kolios M. Detecting cell death with optical coherence tomography and envelope statistics. *J Biomed Opt*, 16:026017, 2011.

Farmer P, Frenk J, Knaul FM, Shulman LN, Alleyne G, Armstrong L, Atun R, Blayney D, Chen L, Feachem R, **Gospodarowicz M**, Gralow J, Gupta S, Langer A, Lob-Levyt J, Neal C, Mbwu A, Mired D, Piot P, Reddy KS, Sachs JD, Sarhan M, Seffrin JR. Expansion of cancer care and control in countries of low and middle income: A call to action. *Lancet* 376(9747): 1186-1193, 2010.

Ferguson PC, Dehesi BM, **Chung P**, **Catton CN**, **O'Sullivan B**, Gupta A, Griffin AM, Wunder JS. Soft tissue sarcoma presenting with metastatic disease: Outcome with primary surgical resection. *Cancer* 117(2): 372-379, 2011.

Fernandes BF, Weisbrod D, Yücel YH, Follwell M, Krema H, **Heydarian M**, Xu W, **Payne D**, McGowan H, Simpson ER, **Laperriere N**, **Sahgal A**. Neovascular glaucoma after stereotactic radiotherapy for juxtaepapillary choroidal melanoma: histopathologic and dosimetric findings. *Int J Radiat Oncol Biol Phys* 80(2): 377-384, 2011.

Flynn C, Khaouam N, Gardner S, Higgins S, Enepekides D, **Balogh J**, **MacKenzie R**, Singh S, Davidson J, **Poon I**. The value of periodic follow-up in the detection of recurrences following radical treatment in locally advanced head and neck cancer. *Clin Oncol* 22(10): 868-873, 2010.

**Foltz WD**, Chopra S, **Chung P**, **Bayley A**, **Catton C**, **Jaffray D**, Wright GA, **Haider MA**, **Ménard C**. Clinical prostate T2 quantification using magnetization-prepared spiral imaging. *Magn Reson Med* 64(4): 1155-1161, 2010.

**Foltz WD**, **Haider MA**, **Chung P**, **Bayley A**, **Catton C**, Ramanan V, **Jaffray D**, Wright GA, **Ménard C**. Prostate T(1) quantification using a magnetization-prepared spiral technique. *J Magn Reson Imaging* 33(2): 474-481, 2011.

Foote M, **Millar BA**, **Sahgal A**, **Ménard C**, **Payne D**, Mason W, **Laperriere N**. Clinical outcomes of adult patients with primary intracranial germinomas treated with low-dose craniospinal radiotherapy and local boost. *J Neurooncol* 100(3): 459-463, 2010.

Foote M, **Letourneau D**, Hyde D, Massicotte E, Rampersaud R, Fehlings M, Fisher C, Lewis S, La Macchia N, Yu E, **Laperriere N**, **Sahgal A**. Technique for stereotactic body radiotherapy for spinal metastases. *J Clin Neurosci* 18(2): 276-279, 2011.

Forbes SS, Sutradhar R, **Paszat LF**, Rabeneck L, Urbach DR, Baxter NN. Long-term survival in young adults with colorectal cancer: A population-based study. *Dis Colon Rectum* 53(7):978-978, 2010.

Forrest JL, **Ackerman I**, **Barbera L**, **Barnes EA**, Davidson M, Kiss A, **Thomas G**. Patient outcome study of concurrent chemoradiation, external beam radiotherapy, and high-dose rate brachytherapy in locally advanced carcinoma of the cervix. *Int J Gynecol Cancer* 20(6): 1074-1078, 2010.

Fraser M, Coackley C, Durocher D and **Bristow RG**. MRE11-Dependent Phosphorylation of AKT at Sites of DNA Double Strand Breaks. *Cell Cycle* 1(10) 13-18, 2011.

Fried I, Hawkins C, Scheinemann K, Tsangaris E, Hesselson L, Bartels U, Huang A, **Laperriere N**, Dirks P, Bouffet E, Tabori U. Excellent outcome with conservative treatment for children with brain stem low grade astrocytomas. *Pediatr Blood Cancer* (published online May 25, 2011).

Gagliardi A, Legare F, Brouwers M, Webster F, **Wiljer D**, Badley E, Straus. Developing a conceptual framework of patient mediated knowledge translation, systematic review using a realist approach. *Implementation Science*, 2011,10.1186/1748-5908-6-25

Gan H, Bernstein L, Brown J, **Ringash J**, Vakilha M, Wang L, Goldstein D, **Kim J, Hope A, O'Sullivan B, Waldron J**, Razak A, Chen E and Siu LL. Cognitive functioning after radiotherapy or chemo-radiotherapy for head and neck cancer. *Int J Radiat Oncol Biol Phys* 81(1):126-34, 2011.

Gerard L, Imrie KR, Mangel J, Buckstein R, **Doherty M, MacKenzie R**, Cheung M. High-dose methotrexate-based chemotherapy (HDMVP) with deferred radiation for treatment of newly diagnosed primary central nervous system lymphoma (PCNSL). *Leuk Lymphoma* (published online June 12, 2011).

Gerster K, Shi W, Ng B, **Waldron J**, Gilbert R, **Liu F-F**. Targeting polo-like kinase 1 enhances radiation efficacy for head-and-neck squamous cell carcinoma. *Int J Radiat Oncol Biol Phys* 77(1): 253-260, 2010.

Giuliani M, Atallah S, **Bezjak A**, Le L, **Sun A, Brade A, Cho J**, Leighl N, Shepherd F, **Hope A**. Clinical Outcomes for Extensive-Stage Small Cell Lung Carcinoma Patients Treated with Consolidative Thoracic Radiotherapy. *Clin Lung Cancer* May 7, 2011.

Giuliani M, **Bezjak A**, Ma C, Le L, **Sun A, Brade A, Cho J**, Shepherd F, Leighl N, **Hope A**. Utilization of prophylactic cranial irradiation in patients with limited stage small cell lung carcinoma. *Cancer* 116(24): 5694-5699, 2010.

Goda JS, Ferguson PC, **O'Sullivan B, Catton CN**, Griffin AM, Wunder JS, Bell RS, Kandel RA, **Chung PW**. High-risk extracranial chondrosarcoma: Long-term results of surgery and radiation therapy. *Cancer* (published online January 18, 2011).

Goda JS, **Gospodarowicz M**, Pintilie M, **Wells W, Hodgson DC, Sun A**, Crump M, **Tsang RW**. Long-term outcome in localized extranodal mucosa-associated lymphoid tissue lymphomas treated with radiotherapy. *Cancer* 116(16): 3815-3824, 2010.

Goda JS, Le LW, **Laperriere, NJ, Millar BA, Payne D, Gospodarowicz MK, Wells W, Hodgson DC, Sun A**, Simpson R, **Tsang RW**. Localized orbital MALT lymphoma managed with primary radiation therapy: Efficacy and toxicity. *Int J Radiat Oncol Biol Phys* (published online June 1, 2011).

Gore EM, Bae K, Wong SJ, **Sun A**, Bonner JA, Schild SE, Gaspar LE, Bogart JA, Werner-Wasik M, Choy H. Phase III comparison of prophylactic cranial irradiation versus observation in patients with locally advanced non-small-cell lung cancer: primary analysis of radiation therapy oncology group study RTOG 0214. *J Clin Oncol* 29(3); 272-8, 2011.

**Gospodarowicz M**. Combination therapy: Hypoxia modification with radiotherapy for bladder cancer. *Nat Rev Clin Oncol* 8(3): 129-130, 2011.

Grabarz D, Panzarella T, **Bezjak A, McLean M**, Elder C, **Wong RK**. Quantifying interobserver variation in target definition in palliative radiotherapy. *Int J Radiat Oncol Biol Phys* 80(5):1498-1504, 2011.

Graham JJ, **Foltz WD**, Vaags AK, Ward MR, Yang YS, Connelly KA, Vijayaraghavan R, Detsky JS, Hough MR, Stewart DJ, Wright GA, Dick AJ. Long-term tracking of bone marrow progenitor cells following intra-coronary injection post-myocardial infarction in swine using magnetic resonance imaging. *Am J Physiol Heart Circ Physiol* 299(1): H125-H133, 2010.

Green DE, **Vines DC**, Chung S, Di Diodato L, **Wouters B**. Dynamic tumour hypoxia imaging in mice with 18F-FAZA PET-CT. *Mol Imaging Biol* 12 (Supplement 2): S1210, 2010.

Grigorov GN, **Chow JCL**. Prostate helical tomotherapy: A semi-empirical estimation of the scaling factor based on 2D approximating field. *Iran J Radiat Res* 7(4): 177-185, 2010.

Grigorov GN, **Chow JCL**, Yazdani N. Dosimetry limitations and pre-treatment dose profile correction for sliding window IMRT. *Iran J Radiat Res* 8(2): 61-74, 2010.

Groome PA, **O'Sullivan B**, Mackillop WJ, Irish J, Schulze K, Jackson LD, Bissett RJ, Dixon PF, Eapen LJ, Gulavita SP, Hammond JA, Hodson DI, **MacKenzie RG**, Schneider KM, **Warde PR**. Laryngeal cancer treatment and survival differences across regional cancer centres in Ontario, Canada. *Clin Oncol* 23(1): 19-28, 2011.

Groome PA, Rohland SL, Hall SF, Irish J, Mackillop WJ, **O'Sullivan B**. A population-based study of factors associated with early versus late stage oral cavity cancer diagnoses. *Oral Oncol* 47(7):642-7. (Published online May 25, 2011).

Gropper R, **Harnett N**, Parker K, Pearce S, MacIver D, Murray L, Ramsay L, Ripley A, Sands B, Zychla L. The path to simulated learning: Developing a valid and reliable tool to evaluate radiological technology students' performance in patient interactions. *J Allied Health* 39(1): 28-33, 2010.

Grunfeld E, **Hodgson DC**, Del Giudice E, Moineddin R. Population-based longitudinal study of follow-up care for breast cancer survivors. *J Oncol Pract* 6(4): 174-181, 2010.

Guerrero M, **Carlone M**. Mechanistic formulation of a lineal-quadratic-linear (LQL) model: Split-dose experiments and exponentially decaying sources. *Med Phys* 37(8): 4173–4181, 2010.

Gupta AA, Pappo A, Saunders N, Hopyan S, Ferguson P, Wunder J, **O'Sullivan B, Catton C**, Greenberg M, Blackstein M. Clinical outcome of children and adults with localized Ewing sarcoma: Impact of chemotherapy dose and timing of local therapy. *Cancer* 116(13): 3189-3194, 2010.

Gupta AA, Pappo A, Saunders N, Hopyan S, Ferguson P, Wunder J, **O'Sullivan B, Catton C**, Greenberg M, Blackstein M. Clinical outcome of children and adults with localized Ewing sarcoma: impact of chemotherapy dose and timing of local therapy. *Cancer* 116(13):3189-94, 2010.

Han K, Basran PS, **Cheung P**. Comparison of helical and average CT for stereotactic body radiation treatment planning and normal tissue contouring in lung cancer. *J Clin Oncol* 22(10): 862-867, 2010.

Harding S, Coackley C, **Bristow RG**. ATM-dependent Phosphorylation of 53BP-1 As A Biomarker of DNA Double Strand Breaks in Oxidic and Hypoxic Cells. *Radiother Oncol* 99(3):307-12, 2011.

Hayhurst C, Monsalves E, Bernstein M, Gentili F, **Heydarian M, Tsao M**, Schwartz M, van Prooijen M, **Millar BA, Ménard C**, Kulkarni AV, **Laperriere N**, Zadeh G. Predicting non-auditory adverse radiation effects following radiosurgery for vestibular schwannoma: A volume and dosimetric analysis. *Int J Radiat Oncol Biol Phys* (published online April 28, 2011).

Hayhurst C, Monsalves E, **Haydarian M**, Cusimano M, **Tsao M, Shagal A**, Schwartz M, van Prooijen M, Bernstein M, Hodaie M, Gentili F, **Millar BA, Ménard C**, Kulkarni AV, **Laperriere N**, Zadeh G. Predicting non-auditory adverse radiation effects following radiosurgery for vestibular schwannoma: A volume and dosimetric analysis. *Int J Radiat Oncol Biol Phys* (published online April 28, 2011).

Hayhurst C, Monsalves E, van Prooijen M, Cusimano M, **Tsao M, Ménard C**, Kulkarni AV, Schwartz M, Zadeh G. Pretreatment predictors of adverse radiation effects after radiosurgery for arteriovenous malformation. *Int J Radiat Oncol Biol Phys* (published online February 22, 2011).

Healy B, Frantzis J, Murry R, Martin J, Middleton M, **Catton C**, Kron T. Development of a dosimetry inter-comparison for IMRT as part of site credentialing for a TROG multi-centre clinical trial for prostate cancer. *Australas Phys Eng Sci Med* 34(2):195-202, 2011.

**Higgins J, Bezjak A, Hope A**, Panzarella T, **Li W, Cho JB, Craig T, Brade A, Sun A, Bissonnette JP**. Effect of image-guidance frequency on geometric accuracy and setup margins in radiotherapy for locally advanced lung cancer. *Int J Radiat Oncol Biol Phys* (published online July 17 2010).

Hird A, Wong J, Zhang L, **Tsao M, Barnes E, Danjoux C, Chow E**. Exploration of symptoms clusters with in cancer patients with brain metastases using the Spitzer quality of life index. *Support Care Cancer* 18(3): 335-342, 2010.

Ho T, **Barbera L**, Saskin R, Lu H, Earle C. Trends in the aggressiveness of end of life cancer care in Ontario, Canada's universal health care system. *J Clin Oncol* (published online March 14, 2011).

**Hodgson DC**, Dong L. Proton therapy for Hodgkin lymphoma: Does a case report make the case? *Leuk Lymphoma* 51(8): 1397-1398, 2010.

**Hodgson DC**, Grunfeld E, Gunraj N, Del Giudice L. A population-based study of follow-up care for Hodgkin lymphoma survivors: Opportunities to improve surveillance for relapse and late effects. *Cancer* 116(14): 3417-3425, 2010.

Holly R, **Morton GC**, Sankrecha R, Law N, Cisecki T, **Loblaw A, Chung HT**. Use of cone-beam imaging to correct for catheter displacement in high dose-rate prostate brachytherapy. *Brachytherapy* 10(4): 299-305, 2011.

Hong NJ, Wright FC, Gagliardi AR, **Paszat LF**. Examining the potential relationship between multidisciplinary cancer care and patient survival: An international literature review. *J Surg Oncol* 102(2): 125-134, 2010.



Huang EX, Bradley JD, Naqa IE, **Hope AJ, Lindsay PE**, Bosch WR, Matthews JW, Sause WT, Graham MV, Deasy JO. Modeling the Risk of Radiation-Induced Acute Esophagitis for Combined Washington University and RTOG Trial 93-11 Lung Cancer Patients. *Int J Radiat Oncol Biol Phys* Jun 13, 2011.

Huang EX, **Hope AJ, Lindsay PE**, Trovo M, El Naqa I, Deasy JO, Bradley JD. Heart irradiation as a risk factor for radiation pneumonitis. *Acta Oncol* 50(1): 51-60, 2011.

**Huang SH, O'Sullivan B, Waldron J, Bayley A, Kim J, Cummings B, Dawson LA, Hope A, Cho J**, Lockwood G, Witterick I, Siu L **Ringash J**. Patterns of care in elderly head and neck cancer radiation oncology patients: A single centre cohort study. *Int J Radiat Oncol Biol Phys* 79(1): 46-51, 2011.

**Huang SH**, Perez-Ordóñez B, **Liu F, Waldron J, Ringash J**, Irish J, **Cummings B**, Siu LL, **Kim J**, Weinreb I, **Hope A**, Gullane P, Brown D, Shi W, **O'Sullivan B**. Atypical Clinical Behavior of p16-Confirmed HPV-Related Oropharyngeal Squamous Cell Carcinoma Treated With Radical Radiotherapy. *Int J Radiat Oncol Biol Phys* Oct 13, 2010.

Ibrahim GM, **Chung C**, Bernstein M. Competing for patients: An ethical framework for recruiting patient with brain tumors into clinical trials. *J Neurooncol* (published online February 12, 2011).

Ishkanian A, **Laperriere NJ**, Xu W, **Millar BA, Payne D**, Mason W, **Sahgal A**. Upfront observation versus radiation for adult pilocytic astrocytoma. *Cancer* (published online March 9, 2011).

Ishkanian AS, Zafarana G, Thoms J, **Bristow RG**. The Potential for Array CGH as A Predictor of Radiocurability in Intermediate Risk Prostate Cancer, *Acta Oncol* 49(7): 888-94, 2010.

Ito E, Yue S, Moriyama EH, Hui AB, Kim I, Shi W, Alajez NM, Bhogal N, Li G, Datti A, Schimmer AD, Wilson BC, Liu PP, Durocher D, Neel BG, **O'Sullivan B, Cummings B, Bristow R**, Wrana J, **Liu FF**. Uroporphyrinogen decarboxylase is a radiosensitizing target for head and neck cancer. *Sci Transl Med* 3(67):67ra7, 2011.

Jewett MA, Mattar K, Basiuk J, Morash CG, Pautler SE, Siemens DR, Tanguay S, Rendon RA, Gleave ME, Drachenberg DE, Chow R, **Chung H**, Chin JL, Fleshner NE, Evans AJ, Gallie BL, **Haider MA**, Kachura JR, Kurban G, Fernandes K, Finelli A. Active surveillance of small renal masses: Progression patterns of early stage kidney cancer. *Eur Urol* 60(1): 39-44, 2011.

**Jon F**, Nguyen J, Rubenstein J, **Holden L**, Ross M, Mitera G, Dennis K, **Chow E**. Painful sacral insufficiency fracture simulating metastatic disease from primary breast cancer. *J Pain Manage* 4(4), 2011.

Jonklaas J, Cooper DS, Ain KB, Bigos T, **Brierley JD**, Haugen BR, Ladenson PW, Magner J, Ross DS, Skarulis MC, Steward DL, Maxon HR, Sherman SI, National Thyroid Cancer Treatment Cooperative Study Group. Radioiodine therapy in patients with stage I differentiated thyroid cancer. *Thyroid* 20(12):1423-1424, 2010.

Joseph K, Tai P, Wu J, **Barnes E, Levin W**. Workshop report: A practical approach and general principles of re-irradiation for in-field cancer recurrence. *Clin Oncol* 22(10): 885-889, 2010.

Kang CE, Clarkson R, Tator CH, **Yeung IW**, Shoichet MS. Spinal cord blood flow and blood vessel permeability measured by dynamic computed tomography imaging in rats after localized delivery of fibroblast growth factor. *J Neurotrauma* 27(11): 2041-2053, 2010.

Kasap S, Frey JB, Belev G, Tousignant O, Mani H, Greenspan J, Laperriere L, Bubon O, Reznik A, DeCrescenzo G, Karim KS, **Rowlands JA**. Amorphous and polycrystalline photoconductors for direct conversion flat panel X-ray image sensors. *Sensors* 11(5): 5112-5157, 2011.

Kaspler P, Chen R, Hyrien O, Jelveh S, **Bristow RG**, **Hill RP**. Biodosimetry using radiation-induced micronuclei in skin fibroblasts. *Int J Radiat Biol* 87(8):824-838, 2011.

Kassam Z, Mackay H, Buckley CA, Fung S, Pintile M, Oza A, **Brierley J**, Swallow C, **Cummings B**, Knox JJ, **Kim J**, **Wong R**, Siu L, Feld R, **Ringash J**. Adjuvant chemoradiation for gastric cancer with infusional 5-fluorouracil and cisplatin: a phase I study. *Curr Oncol* 17(4): 34-41, 2010.

Kennedy ED, Schmocker S, Victor C, Baxter NN, **Kim J**, **Brierley J**, Mcleod RS. Do patients consider preoperative chemoradiation for primary rectal cancer worthwhile? *Cancer* 117(13):2853-62, 2011.

Khalili K, Kim TK, Jang HJ, **Haider MA**, Khan L, Guindi M, Sherman M. Optimization of imaging diagnosis of 1-2cm hepatocellular carcinoma: An analysis of diagnostic performance and resource utilization. *J Hepatol* 54(4): 723-728, 2011.

Khan L, Kwong J, Nguyen J, **Chow E**, Zhang L, Culleton S, Zeng L, **Jon F**, **Tsao M**, **Barnes E**, **Danjoux C**, **Sahgal A**, **Holden L**. Comparing baseline symptom severity and demographics over two time periods in an outpatient radiotherapy clinic. *Support Care in Cancer* (published online March 1, 2011).

Khan L, Uy C, Nguyen J, **Chow E**, Zhang L, Zeng L, Salvo N, Culleton S, **Jon F**, Wong K, **Danjoux C**, **Tsao M**, **Barnes E**, **Sahgal A**, **Holden L**. Self-reported rates of sleep disturbance in patients with symptomatic bone metastases attending an outpatient radiotherapy clinic. *J Pall Med* 14(6): 708-714, 2011.

Kim TK, Lee KH, Jang HJ, **Haider MA**, Jacks LM, Menezes RJ, Park SH, Yazdi L, Sherman M, Khalili K. Analysis of gadobenate dimeglumine-enhanced MR findings for characterizing small (1-2-cm) hepatic nodules in patients at high risk for hepatocellular carcinoma. *Radiology* 259(3): 730-738, 2011.

**Kirilova A**, Damyanovich AZ, Crook J, Jezioranski J, Wallace K, Pintilie M. 3D MR-spectroscopic imaging assessment of metabolic activity in the prostate during the PSA ‘bounce’ following <sup>125</sup>iodine brachytherapy. *Int J Radiat Oncol Biol Phys* 79(2): 371–378, 2011.

Knox JJ, **Wong R**, Visbal AL, Horgan AM, Guindi M, Hornby J, Xu W, **Ringash J**, Keshavjee S, Chen E, **Haider M**, Darling G. Phase 2 trial of preoperative irinotecan plus cisplatin and conformal radiotherapy, followed by surgery for esophageal cancer. *Cancer* 116(17): 4023-4032, 2010.

Knox M, **Ménard C**, Mason W. Leptomeningeal gliomatosis as the initial presentation of gliomatosis cerebri. *J Neurooncol* 100(1): 145-149, 2010.

Kong FM, Ritter T, Quint DJ, Senan S, Gaspar LE, Komaki RU, Hurkmans CW, Timmerman R, **Bezjak A**, Bradley JD, Moysas B, Marsh L, Okunieff P, Choy H, Curran WJ Jr. Consideration of dose limits for

organs at risk of thoracic radiotherapy: Atlas for lung, proximal bronchial tree, esophagus, spinal cord, ribs and brachial plexus. *Int J Radiat Oncol Biol Phys* (published online October 7, 2010).

Kong V, Lockwood G, Yan J, **Catton C**, **Chung P**, **Bayley A**, **Craig T**, **Rosewall T**. The effect of registration surrogate and patient factors on the interobserver variability of electronic portal image guidance during prostate radiotherapy. *Med Dosim* (published online September 14, 2010).

Koo K, Zeng L, Jon F, Dennis K, **Holden L**, Zhang L, Caissie A, Nguyen J, **Tsao M**, **Barnes E**, **Danjoux C**, **Sahgal A**, **Chow E**. Quality of life in patients treated with palliative radiotherapy for advanced lung cancer and lung metastases. *Wor J Onc* 2(2): 70-75, 2011.

Krakowsky Y, **Loblaw DA**, Klotz L. Prostate cancer death in men managed with initial active surveillance: Clinical and biochemical characteristics. *J Urol* 184(1): 131-135, 2010.

Krieger A, Iordachita I, Guion P, Singh AK, Kaushal A, **Ménard C**, Pinto P, Camphausen K, Fichtinger G, Whitcomb L. An MRI-compatible robotic system with hybrid tracking for MRI-guided prostate intervention. *IEEE Transactions on Biomedical Engineering* 58: 1-12, 2011.

Kupets R, **Paszat L**. How are women with high grade Pap smear abnormalities managed: A population-based study. *Gynecol Oncol* 121(3): 499-504, 2011.

Kupets R, **Paszat L**. Physician and patient factors associated with follow up of high grade dysplasia of the cervix: A population-based study. *Gynecol Oncol* 120(1): 63–67, 2011.

Kwong J, **Jon F**, Sugar L, O’Hayon B, **Holden L**, Nguyen J, Ross M, Uy C, Khan L, Dennis K, **Chow E**. Renal mass – Primary of metastatic? The search for a definitive diagnosis. *J Pain Manage* 4(4), 2011.

Kwong J, **Jon F**, **Holden L**, Zeng L, Culleton S, **Danjoux C**, **Tsao M**, **Barnes E**, **Sahgal A**, Dennis K, **Chow E**. Dedicated out-patient palliative radiation treatment clinics for patients with advanced cancer. *J Pain Manage* 4(4), 2011.

Lamey M, Rathee S, Johnson L, **Carlone M**, Blosser E, and Fallone BG. Radio frequency noise from the modulator of a linac. *IEEE Tran Elec Comp*. 52(3): 530-536, 2010.

Landry G, Reniers B, Murrer L, Lutgens L, Bloemen-Van Gurp E, **Pignol JP**, **Keller B**, Beaulieu L, Verhaegen F. Sensitivity of low energy brachytherapy Monte Carlo dose calculations to uncertainties in human tissue composition. *Med Phys* 37(10): 5188-5198, 2010.

Landry G, Reniers B, **Pignol JP**, Beaulieu L, Verhaegen F. The difference of scoring dose to water or tissues in Monte Carlo dose calculations for low energy brachytherapy photon sources. *Med Phys* 38(3): 1526-1533, 2011.

Langer DL, van der Kwast TH, Evans AJ, Plotkin A, Trachtenberg J, Wilson BC, **Haider MA**. Prostate tissue composition and MR measurements: Investigating the relationships between ADC, T2, K(trans), v(e), and corresponding histologic features. *Radiology* 255: 485-494, 2010.

Law N, Bouffet E, Laughlin S, **Laperriere N**, Brière ME, Strother D, McConnell D, Hukin J, Fryer C, Rockel C, Dickson J, Mabbott D. Cerebro-thalamo-cerebral connections in pediatric brain tumor patients: Impact on working memory. *Neuroimage* 56(4): 2238-2248, 2011.

Lawton CA, Hunt D, Lee WR, Gomella L, Grignon D, Gillin M, **Morton G**, Pisansky TM, Sandler H. Long-term results of a phase II trial of ultrasound-guided radioactive implantation of the prostate for definitive management of localized adenocarcinoma of the prostate (RTOG 98-05). *Int J Radiat Oncol Biol Phys* (published online April 4, 2011).

Lee AW, Tung SY, Chan AT, Chappell R, Fu YT, Lu TX, Tan T, Chua DT, **O'Sullivan B**, Tung R, Ng WT, Leung TW, Leung SF, Yau S, Zhao C, Tan EH, Au GK, Siu L, Fung KK, Lau WH. A randomized trial on addition of concurrent-adjuvant chemotherapy and/or accelerated fractionation for locally-advanced nasopharyngeal carcinoma. *Radiother Oncol* 98(1):15-22,2010.

Lee AW, Tung SY, Chua DT, Ngan RK, Chappell R, Tung R, Siu L, Ng WT, Sze WK, Au GK, Law SC, **O'Sullivan B**, Yau TK, Leung TW, Au JS, Sze WM, Choi CW, Fung KK, Lau JT, Lau WH. Randomized trial of radiotherapy plus concurrent-adjuvant chemotherapy vs radiotherapy alone for regionally advanced nasopharyngeal carcinoma. *J Natl Cancer Inst* 102(15):1188-98, 2010.

Lee AW, Tung SY, Ngan RK, Chappell R, Chua DT, Lu TX, Siu L, Tan T, Chan LK, Ng WT, Leung TW, Fu YT, Au GK, Zhao C, **O'Sullivan B**, Tan EH, Lau WH. Factors contributing to the efficacy of concurrent-adjuvant chemotherapy for locoregionally advanced nasopharyngeal carcinoma: Combined analyses of NPC-9901 and NPC-9902 Trials. *Eur J Cancer* 47(5):656-66, 2011.

Lee M, **Purdie T**, Eccles C, **Sharpe M**, **Dawson L**. Comparison of simple and complex liver intensity modulated radiotherapy. *Radiat Oncol* 5: 115, 2010.

Leung MKK, **Chow JCL**, Chithrani BD, Lee MJG, Oms B, **Jaffray DA**. Irradiation of gold nanoparticles by x-rays: Monte Carlo simulation of dose enhancements and the spatial properties of the secondary electrons production. *Med Phys* 38(2): 624-631, 2011.

Leung M, Nguyen J, Rubenstein J, **Chow E**, **Holden L**, Dennis K, **Jon F**. Asymptomatic 20cm-long femoral metastases: A unique case of long-bone disease responding to radiotherapy alone. *J Pain Manage* 4(4), 2011.

**Li W**, **Harnett N**, **Moseley D**, **Higgins J**, Chan K, **Jaffray D**. Investigating user perspective on training and clinical implementation of volumetric imaging. *JMIRS* 41(2): 57-65, 2010.

**Li W**, **Moseley DJ**, **Bissonnette JP**, **Purdie T**, **Bezjak A**, **Jaffray DA**. Setup reproducibility for thoracic and upper gastrointestinal radiation therapy: Influence of immobilization method and on-line cone-beam CT guidance. *Med Dosim* 35(4): 287-296, 2010.

**Li W**, **Purdie TG**, Taremi M, Fung S, **Brade A**, **Cho BCJ**, **Hope A**, **Sun A**, **Jaffray DA**, **Bezjak A**, **Bissonnette JP**. Effect of immobilization and performance status on intrafraction motion for stereotactic lung radiotherapy: Analysis of 133 patients. *Int J Radiat Oncol Biol Phys* (published online November 2010).

**Li W**, Sie F, Boostma G, **Moseley D**, **Catton C**, **Jaffray D**. Geometric performance and efficiency of an optical tracking system for daily pre-treatment positioning in pelvic radiotherapy patients. *Technol Cancer Res Treat* 10(2): 163-170, 2011.

Li YQ, Aubert I, **Wong CS**. Abrogation of early apoptosis does not alter late inhibition of hippocampal neurogenesis after irradiation. *Int J Radiat Oncol Biol Phys* 77(4):1213-1222, 2010.

Lian K, Davey C, Wake M, **Cashell A**. The effects of post-radiation education pamphlet on self-efficacy in cancer patients. *JMIRS* 42(2): 59-65, 2011.

Lim G, **Bezjak A, Higgins J, Moseley D, Hope AJ, Sun A, Cho JB, Brade AM, Ma C, Bissonnette JP**. Tumor regression and positional changes in non-small cell lung cancer during radical radiotherapy. *J Thorac Oncol* 6(3): 531-536, 2011.

Lindner U, Lawrentschuk N, Weersink RA, Davidson SR, Raz O, Hlasny E, Langer DL, Gertner MR, Van der Kwast T, **Haider MA**, Trachtenberg J. Focal laser ablation for prostate cancer followed by radical prostatectomy: validation of focal therapy and imaging accuracy. *Eur Urol* 57(6): 1111-1114, 2010.

**Loblaw A**, Zhang L, Lam A, Nam R, Mamedov A, **Vesprini D**, Klotz L. Comparing prostate specific antigen triggers for intervention in men with stable prostate cancer on active surveillance. *J Urol* 184(5): 1942-1946, 2010.

Look Hong NJ, Gagliardi AR, Bronskill SE, **Paszat LF**, Wright FC. Multidisciplinary cancer conferences: exploring obstacles and facilitators to their implementation. *J Oncol Pract* 6(2): 61-68, 2010.

Lukka H, Waldron T, Chin J, Mayhew L, **Warde P**, Winquist E, Rodrigues G, Shayegan B. High-intensity focused ultrasound for prostate cancer: a practice guideline. *CUAJ* 4(4): 232-236, 2010.

Lukka H, Waldron T, Chin J, Mayhew L, **Warde P**, Winquist E, Rodrigues G, Shayegan B; on behalf of the Genitourinary Cancer Disease Site Group of Cancer Care Ontario's Program in Evidence-Based Care. High-intensity focused ultrasound for prostate cancer: A systematic review. *Clin Oncol* 23(2): 117-127, 2011.

Luoto K, Meng A, Wasylishen A, Zhao H, Coackley C, Penn L, **Bristow RG**. Tumor Cell Kill by c-MYC Depletion: Role of MYC-regulated Genes that Control DNA Double Strand Break Repair. *Cancer Research* 70(21):8748-59, 2010.

Lutz S, Lo S, **Chow E, Sahgal A**, Hoskin P. Radiotherapy for metastatic bone disease: Current standards and future prospectus. *Expert Rev Anticancer Ther* 10(5): 683-695, 2010.

Lutz S, Berk L, Chang E, **Chow E**, Hahn C, Hoskin P, Howell D, Konski A, Kachnic L, Lo S, **Sahgal A**, Silverman L, von Gunten C, Mendel E, Vassil A, Bruner D, Hartsell W. Palliative radiotherapy for bone metastases: An astro evidence-based guideline. *Int J Radiat Oncol Biol Phys* 79(4): 965-976, 2011.

Ma L, Petti P, Wang B, Descovich M, Chuang C, Barani IJ, Kunwar S, Shrieve DC, **Sahgal A**, Larson DA. Apparatus dependence of normal brain tissue dose in stereotactic radiosurgery for multiple brain metastases. *J Neurosurg* 114(6): 1580-1584, 2011.

Ma L, **Sahgal A**, Cozzi L, Chang E, Shiu A, **Letourneau D**, Yin FF, Fogliata A, Kaissl W, **Laperriere N**, Shrieve DC, Larson DA. Apparatus-dependent dosimetric differences in spine stereotactic body radiotherapy. *Technol Cancer Res Treat* 9(6): 563-574, 2010.

Mabbott DJ, Monslaves E, Andrews N, Speigler BJ, Bartels U, Janzen L, Guger S, **Laperriere N**, Bouffet E. Longitudinal Evaluation of neuro-cognitive function following treatment for central nervous system germ cell tumors in childhood. *Cancer* (published online May 11, 2011).

MacCulloch R, **Nyhof-Young J**, Nicholas D, Donaldson S, Wright JG. Development of an online information and support resource for adolescent idiopathic scoliosis patients considering surgery: Perspectives of health care providers. *Scoliosis* 5: 13, 2010.

Mackay H, Tinker A, Eric E, **Thomas G**, Swenerton K, Oza A, Sederias J, Ivy P, Eisenhauer EA. A phase II study of Sunitinib in patients with locally advanced or metastatic cervical carcinoma: NCIC CTG Trial IND.184. *Gyn Onc* 116(2): 163-167, 2010.

**Mah K, Bezjak A, Loblaw DA**, Gotowiec A, Devins GM. Do ongoing lifestyle disruptions differ across cancer types after the conclusion of cancer treatment? *J Cancer Surviv* 5(1): 18-26, 2010.

**Mah K, Bezjak A, Loblaw DA**, Gotowiec A, Devins GM. Measurement invariance of the illness intrusiveness ratings scale's 3-factor structure in men and women with cancer. *Rehab Psych* 56(1): 58-66, 2011.

Martin JM, Frantzia J, Eade T, **Chung P**. Clinician's guide to prostate IMRT plan assessment and optimisation. *J Med Imaging Radiat Oncol* 54(6): 569-575, 2010.

Mazrani W, O'Malley ME, **Chung PW, Warde P, Vesprini D**, Panzarella T. Lymph node growth rate in testicular germ cell tumours: Implications for computed tomography surveillance frequency. *Clin Onc (R Coll Radiol)* 23(5): 333-338, 2011.

McGrath DM, Vlad RM, **Foltz WD, Brock KK**. Technical note: fiducial markers for correlation of whole-specimen histopathology with MR imaging at 7 tesla. *Med Phys* 37(5): 2321-2328, 2010.

Metcalf K, Lynch H, Ghadirian P, Tung N, Kim-Sing C, Olopade O, Domchek S, Eisen A, Foulkes W, Rosenn B, **Vesprini D**, Sun P, Narod S. Risk of ipsilateral breast cancer in BRCA1 and BRCA2 mutation carriers. *Breast Cancer Res Treat* 127(1): 287-296, 2011.

Mian M, Gaidano G, Conconi A, **Tsang R, Gospodarowicz MK**, Rambaldi A, Rossi A, Oldani E, Federico M, Luminari S, Bellei M, Pogliani EM, Rossini F, Cabrera ME, Martelli M, Lopez-Guillermo A, Busetto M, Cavalli F, Zucca E, Cortelazzo S. High response rate and improvement of long-term survival with combined treatment modalities in patients with poor-risk primary thyroid diffuse large B-cell lymphoma: An International Extranodal Lymphoma Study Group and Intergruppo Italiano Linfomi study. *Leuk Lymphoma* 52(5): 823-832, 2011.

Mian M, Marcheselli L, Luminari S, Federico M, Cantonetti M, Sarris AH, Rossi A, Rambaldi A, Frontani M, Devizzi L, Gianni AM, Busetto M, Berti E, Martinelli G, **Tsang RW**, Ferreri AJ, Pinotti G, Pogliani E, Zucca E, Cortelazzo S. CLIPI: A new prognostic index for indolent cutaneous B cell lymphoma proposed by the International Extranodal Lymphoma Study Group (IELSG 11). *Ann Hematol* 90(4): 401-408, 2011.

Michalski J, Lawton C, El Naqa I, Ritter M, O'Meara E, Seider MJ, Lee WR, Rosenthal SA, Pisansky T, **Catton C**, Valicenti RK, Zietman AL, Bosch WR, Sandler H, Buyyounouski MK, **Ménard C**.

Development of RTOG consensus guidelines for the definition of the clinical target volume for postoperative conformal radiation therapy for prostate cancer. *Int J Radiat Oncol Biol Phys* 76(2): 361-368, 2010.

Middleton M, Frantz J, Healy B, Jones M, Murry R, Kron T, Plank A, **Catton C**, Martin J. Successful implementation of image-guided radiation therapy quality assurance in the trans tasman radiation oncology group 08.01 PROFIT Study. *Int J Radiat Oncol Biol Phys* (published online November 11, 2010).

Mitera G, Bjarnason G, Pirouzmand F, Bilbao J, **Danjoux C**, **Sahgal A**. Pre-operative stereotactic body radiotherapy to a skull renal cell metastasis: An alternative to pre-operative embolization? *J Palliat Med* 14(2): 157-160, 2011.

Mitera G, Chan G, **Mah K**, Law R, DeAngelis C, Dent R, **Chow E**. A rare adverse skin reaction after a single 8Gy of radiation therapy to the thoracic spine: Case report and review of the literature. *Curr Oncol* 17(5): 70-73, 2010.

Mitera G, Fairchild A, Deangelis C, Emmenegger U, Zurawel-Balaura L, Zhang L, **Bezjak A**, **Levin W**, **McLean M**, Zeiadin N, Pang J, Nguyen J, **Sinclair E**, **Chow E**, **Wong R**. A multicenter assessment of the adequacy of cancer pain treatment using the pain management index. *J Palliat Med* 13(5): 589-593, 2010.

Mitera G, Probyn L, Ford M, Donovan A, Rubenstein J, Finkelstein J, Christakis M, Zhang L, Campos S, Culleton S, Nguyen J, **Sahgal A**, **Barnes E**, **Tsao M**, **Danjoux C**, **Holden L**, Yee A, Khan L, **Chow E**. Correlation of computed tomography imaging features with pain response in patients with spine metastases after radiation therapy. *Int J Radiat Oncol Biol Phys* (published online October 1, 2010).

Mitera G, **Sahgal A**, **Laperriere N**, **Loblaw A**. Management of malignant spinal cord compression. *J Pain Manage* 4(1): 43-53, 2011.

Miyagi Y, Zeng F, Huang X, **Foltz WD**, Wu J, Mihic A, Yau TM, Weisel RD, Li R. Surgical ventricular restoration with a cell- and cytokine-seeded biodegradable scaffold. *Biomaterials* 31(30): 7684-7694, 2010.

**Morton G**, Walker-Dilks C, Baldassare F, D'Souza D, Falkson C, Batchelar D, Gutierrez E, Bak K. Delivery of brachytherapy for cervical cancer: organizational and technical advice to facilitate high quality care. *Clin Oncol (R Coll Radiol)* 22(7): 605-614, 2010.

**Morton GC**, **Loblaw DA**, **Chung H**, Tsang G, Sankreacha R, Deabreu A, Liying Z, Mamedov A, **Cheung P**, Batchelar D, **Danjoux C**, **Szumacher E**. Health related quality of life following single fraction high dose-rate brachytherapy and hypofractionated external beam radiotherapy for prostate cancer. *Int J Radiat Oncol Biol Phys* (published on-line August 12, 2010).

Myrehaug S, Pintilie M, Yun L, Crump M, **Tsang RW**, Meyer RM, Sussman J, Yu E, **Hodgson DC**. A population-based study of cardiac morbidity among Hodgkin lymphoma patients with pre-existing heart disease. *Blood* 116(13): 2237-2240, 2010.

- Nagelkerke A, Mujcic H, Bussink J, **Wouters BG**, van Laarhoven HW, Sweep FC, Span PN. Hypoxic regulation and prognostic value of LAMP3 expression in breast cancer. *Cancer* (Published online February 11, 2011).
- Nam R, Kattan M, Chin J, Trachtenberg J, Singal R, Rendon R, Klotz L, Sugar L, Sherman C, Izawa J, Bell D, Stanimirovic A, Venkateswaran V, Diamandis E, Yu C, **Loblaw DA**, Narod SA. Prospective multi-institutional study evaluating the performance of prostate cancer risk calculators. *JCO* (published online June 20, 2011).
- Ng A, Constine LS, Advani R, Das P, Flowers C, Friedberg J, **Hodgson DC**, Schwartz CL, Wilder RB, Wilson LD, Yunes MJ. ACR appropriateness criteria: Follow-up of Hodgkin's lymphoma. *Curr Probl Cancer* 34(3): 211-227, 2010.
- Nguyen J, **Chow E**, Zeng L, Zhang L, Culleton S, **Holden L**, Mitera G, **Tsao M**, **Barnes E**, **Danjoux C**, **Sahgal A**. Palliative response and functional interference outcomes using the brief pain inventory for spinal bony metastases treated with conventional radiotherapy. *Clin Onc (R Coll Radiol)* (published online, February 23, 2011).
- Nguyen J, **Sahgal A**, **Chow E**, Danielson B. Brain metastases and quality of life. *J Alt Med Res* 2(3): 257-272, 2010.
- Nguyen J, **Sahgal A**, **Sinclair E**, Mitera G, Farhadian M, **Danjoux C**, Finkelstein J, Yee A, Ford M, Pugash R, Emmenegger U, Chakraborty A, **Chow E**. Rapid response radiotherapy program and multidisciplinary bone metastases clinic. *J Pain Manage* 4(1): 5-22, 2011.
- Nguyen J, Ma Y, Luo T, **Bristow RG**, Jaffray DA, Lu, QB. Direct Observation of Ultrafast Electron Transfer Reactions Unravels High Effectiveness of Reductive DNA Damage. *PNAS* 108(29):11778-83, 2011.
- Nichol AM, **Warde PR**, Lockwood GA, **Kirilova AK**, **Bayley A**, **Bristow R**, Crook J, **Gospodarowicz M**, **McLean M**, **Milosevic M**, **Rosewall T**, **Jaffray DA**, **Catton CN**. A cinematic magnetic resonance imaging study of milk and magnesia laxative and an antifatulent diet to reduce intrafraction prostate motion. *Int J Radiat Oncol Biol Phys* 77(4): 1072-1078, 2010.
- Oh J, Kutas G, **Davey P**, Morrison M, Perry J. Aplastic anemia with concurrent temozolomide treatment in a patient with glioblastoma multiforme. *Curr Oncol* 17(4): 124-126, 2010.
- O'Donnell L, Panier S, Wildenhain J, Tkach JM, Al-Hakim A, Landry MC, Escribano-Diaz C, Szilard RK, Young JT, Munro M, Canny MD, Kolas NK, Zhang W, Harding SM, Ylanko J, Mendez M, Mullin M, Sun T, Habermann B, Datti A, **Bristow RG**, Gingras AC, Tyers MD, Brown GW, Durocher D. The MMS22L-TONSL Complex Mediates Recovery from Replication Stress and Homologous Recombination. *Mol Cell* 40(4):619-31, 2010.
- O'Grady I, Jadad A, Bender J, **Wiljer D**, Urowitz S. Promoting and participating in online health forums: A guide to facilitation and evaluation for health professionals. *Journal of Communication in Healthcare*, Volume 3, Numbers 3-4, 2010, pp. 246-257(12).



Ozer S, Langer DL, Liu X, **Haider MA**, van der Kwast TH, Evans AJ, Yang Y, Wernick MN, Yetik IS. Supervised and unsupervised methods for prostate cancer segmentation with multispectral MRI. *Med Phys* 37(4): 1873-1883, 2010.

Pang J, Assaad D, **Breen D**, Fialkov J, Antonyshyn O, **Balogh J**, **Tsao M**, Kamra J, **Czarnota G**, **Barnes EA**. Extramammary paget disease: Review of patients seen in a non-melanoma skin cancer clinic. *Curr Oncol* 17(5): 43-45, 2010.

Pang J, Panzarella T, **Chow E**. Prognosis and survival prediction. *J Alt Med Res* 2(3): 309-332, 2010.

Perry JR, Julian JA, **Laperriere NJ**, Geerts W, Agnelli G, Rogers LR, Malkin MG, Sawaya R, Baker R, Falanga A, Parpia S, Finch T, and Levine MN. PRODIGE: A phase III randomized placebo-controlled trial of thromboprophylaxis using dalteparin low molecular weight heparin (LMWH) in patients with newly diagnosed malignant glioma. *J Thromb Haemost* 8(9): 1959-1965, 2010.

**Pignol JP**, **Keller B**, Ravi A. Doses to internal organs for various breast radiation techniques - implications on the risk of secondary cancers and cardiomyopathy. *Radiat Oncol* 6: 5, 2011.

**Pignol JP**, Olivotto I. Breast intensity-modulated radiation therapy to reduce radiation dermatitis. *European Journal of Clinical & Medical Oncology* 2: 93-100, 2010.

**Pignol JP**, **Rakovitch E**, Olivotto I. Is breast conservation therapy superior to mastectomy for women with triple negative breast cancers? *J Clin Oncol* (published online June 13, 2011).

Pintilie M, Bai Y, Yun L, **Hodgson DC**. The analysis of case cohort design in the presence of competing risks with application to estimate the risk of delayed cardiac toxicity among Hodgkin Lymphoma survivors. *Stat Med* 29(27): 2802-10, 2010.

Presutti R, Hird A, DeAngelis C, Fairchild A, Holt T, **Loblaw A**, **Chow E**. Palliative radiotherapy of bone metastases and pain flare. *J Pain Manage* 4(1):105-115, 2011.

Presutti R, Nguyen J, Hird A, Fairchild A, Clemons M, Kerba M, **Sahgal A**, **Chow E**. Bone metastases and quality of life. *J Pain Manage* 4(1): 117-131, 2011.

Presutti R, Nguyen J, **Holden L**, DeAngelis C, Culleton S, Mitera G, **Tsao M**, **Barnes E**, **Danjoux C**, **Sahgal A**, Salvo N, Khan L, **Chow E**. Radiation-induced nausea and vomiting in a palliative radiotherapy clinic: A preliminary analysis. *J Pain Manage* 3(3): 301-307, 2010.

**Purdie TG**, **Dinniwell RE**, **Letourneau D**, Hill C, **Sharpe MB**. Automated planning of tangential breast intensity-modulated radiotherapy using heuristic optimization. *Int J Radiat Oncol Biol Phys* (published online January 13, 2011).

Qian W, Haight J, **Poon I**, Enepekides D, Higgins KM. Sleep apnea in patients with oral cavity and oropharyngeal cancer after surgery and chemoradiation therapy. *Otolaryngol Head Neck Surg* 143(2): 248-252, 2010.

Quon H, **Cheung PCF**, **Loblaw DA**, **Morton G**, **Pang G**, **Szumacher E**, **Danjoux C**, Choo R, **Thomas G**, Kiss A, Mamedov A, Deabreu A. Hypofractionated concomitant intensity-modulated radiotherapy

boost for high-risk prostate cancer: Late toxicity. *Int J Radiat Oncol Biol Phys* (published online January 13, 2011).

Quon H, **Loblaw A**. Androgen deprivation therapy for prostate cancer: Review of indications in 2010. *Curr Oncol* 17(Supplement 2): S38-S44, 2010.

Quon H, **Loblaw DA**, Nam R. Dramatic increase in prostate cancer cases by 2021. *BJU Int* (published online April 2011).

Rabeneck L, Saskin R, **Paszat LF**. Onset and clinical course of bleeding and perforation after outpatient colonoscopy: A population-based study. *Gastrointest Endosc* 73(3): 520–523, 2011.

Rajan DK, Margau R, Kroll RR, Simons ME, **Tan KT**, Jaskolka JD, Kachura JR, Sniderman KW, Beecroft JR, **Haider M**. Clinical utility of ultrasound versus magnetic resonance imaging for deciding to proceed with uterine artery embolization for presumed symptomatic fibroids. *Clin Radiol* 66(1): 57-62, 2011.

Ramaekers CH, **Wouters BG**, Regulatory Functions of Ubiquitin in Diverse DNA Damage Responses. *Curr Mol Med* 11(2):152-69, 2011.

Ramaekers CHMA, van den Beucken T, Meng A, Kassam S, Thoms J, **Bristow RG**, **Wouters BG**. Hypoxia Disrupts the Fanconi Anemia Pathway and Sensitizes Cells to Chemotherapy Through Regulation of UBE2T, *Radiother Oncol* (Published online June 29, 2011).

Raz O, **Haider MA**, Davidson SR, Lindner U, Hlasny E, Weersink R, Gertner MR, Kucharczyk W, McCluskey SA, Trachtenberg J. Real-time magnetic resonance imaging-guided focal laser therapy in patients with low-risk prostate cancer. *Eur Urol* 58(1): 173-177, 2010.

Razak ARA, Siu LL, **Liu F-F**, Ito E, **O'Sullivan B**, Chan K. Nasopharyngeal carcinoma: The next challenges. *Eur J Cancer* 46(11): 1967-1978, 2010.

Roos FC, Roberts AM, Hwang, IIL, Moriyama EH, Evans AJ, Watson IR, Carneiro LAM, Gedye C, Sufan RI, Girardin SE, Ailles LE, Jewett MAS, **Milosevic M**, Wilson BC, Bell JC, Der SD, Ohh M. Oncolytic targeting of renal cell carcinoma via encephalomyocarditis virus. *EMBO Mol Med* 2(7): 275-288, 2010.

**Rosewall T**, Catton C, Currie G, **Bayley A**, **Chung P**, Wheat J, **Milosevic M**. The relationship between external beam radiotherapy dose and chronic urinary dysfunction: A methodological critique. *Radiother Oncol* 97(1): 40-47, 2010.

**Rosewall T**, Potvin M, **Bayley A**, Catton C, Currie G, Wheat J, **Milosevic M**. The effects of external beam radiotherapy on the normal urinary bladder: A histopathological review. *JMIRS* (published online June 12, 2011).

Ruschin M, Nayebi N, Carlsson P, Brown K, Tamerou M, **Li W**, **Laperriere N**, **Sahgal A**, **Cho YB**, **Ménard C**, **Jaffray D**. Performance of a novel repositioning head frame for gamma knife perfexion and image-guided linac-based intracranial stereotactic radiotherapy. *Int J Radiat Oncol Biol Phys* 78(1): 306-313, 2010.

- Sahgal A.** Spinal cord tolerance to radiation. *J Pain Symptom Manag* 4(1): 99-104, 2011.
- Sahgal A,** Barani IJ, Novotny J, **Zhang B,** Petti P, Larson DA, Ma L. Prescription dose guidelines based on physical criterion for multiple metastatic brain tumors treated with stereotactic radiosurgery (SRS). *Int J Radiat Oncol Biol Phys* 78(2): 605-608, 2010.
- Sahgal A,** Bilsky M, Chang EL, Ma L, Yamada Y, Rhines L, **Letourneau D,** Foote M, Yu E, Larson DA, Fehling M. Stereotactic body radiotherapy for spinal metastases: current status with a focus on the application to the post-operative patient. *J Neurosurg Spine* 14(2): 151-166, 2011.
- Sahgal A,** Ma L, Gibbs I, Gerszten PC, Ryu S, Soltys S, Weinberg V, **Wong S,** Chang E, Fowler J, Larson DA. Spinal cord tolerance for stereotactic body radiotherapy. *Int J Radiat Oncol Biol Phys* 77(2): 548-553, 2010.
- Sahgal A,** Ma L, Weinberg V, Gibbs IC, Chao S, Chang U, Werner-wasik M, Angelov A, Chang EL, Sohn MJ, Soltys S, **Letourneau D,** Ryu S, Gerszten PC, Fowler J, **Wong CS,** Larson DA. Re-treatment spinal cord tolerance for spine stereotactic body radiotherapy. *Int J Radiat Oncol Biol Phys* (published online October 18, 2010).
- Sahgal A,** Massicotte E, Rampersaud R, Yee A, Fehlings M, Lewis S, **Letourneau D,** Hyde D, Larson D, Ma L. Stereotactic body radiotherapy for spine tumors. *J Pain Manage* 4(1): 33-42, 2011.
- Salvo N, **Barnes E,** van Draanen J, Stacey E, Mitera G, Breen D, Giotis A, **Czarnota G,** Pang J, DeAngelis C. Prophylaxis and management of acute radiation-induced skin reactions: A systemic review of the literature. *Curr Oncol* 17(4): 94-112, 2010.
- Salvo N, Doble B, Khan L, Amirthevasar G, Dennis K, Pasetka M, DeAngelis C, **Tsao M,** **Chow E.** Prophylaxis of radiation-induced nausea and vomiting using 5-hydroxytryptamine-3 serotonin receptor antagonists: A systematic review of randomized trials. *Int J Radiat Oncol Biol Phys* (published online November 13, 2010).
- Sanli T, Rashid A, Liu C, Harding S, **Bristow RG,** Cutz JC, Wright J, Tsakiridis T. Ionizing Radiation Activates AMP-Activated Kinase (AMPK). A Target for Radiosensitization of Human Cancer Cells. *Int J Rad Onc Biol Phys* 78(1):221-9, 2010.
- Sawka AM, Ibrahim-Zada I, Galacgac P, **Tsang RW,** **Brierley JD** Ezzat S, Goldstein DP. Dietary iodine restriction in preparation for radioactive iodine treatment or scanning in well-differentiated thyroid cancer: A systematic review. *Thyroid* 20(10): 1129-1138, 2010.
- Sawka AM, Strauss S, **Brierley JD,** **Tsang RW,** Rotstein L, Rodin G, Gafni A, Ezzat S, Thabane L, Thorpe KE, Goldstein DP. Decision aid on radioactive iodine treatment for early stage papillary thyroid cancer - A randomized controlled trial. *Trials* 11: 81, 2010.
- Sawka A, Strauss S, Gafni A, **Brierley J,** **Tsang R,** Rotstein L, Ezzat S, Thabane L, Rodin G, Meiyappan S, Goldstein DP. How can we meet the information needs of patients with early stage papillary thyroid cancer considering radioactive iodine remnant ablation? *Clin Endocrinol (Oxf)* 74(4): 419-423, 2011.
- Sawka A, Strauss S, Gafni A, Meiyappan S, O'Brien MA, **Brierley JD,** **Tsang RW,** Rotstein L, Thabane L, Rodin G, George SR, Goldstein DP. A usability study of a computerized decision aid to help patients

with, early stage papillary thyroid carcinoma in, decision-making on adjuvant radioactive iodine treatment. *Patient Educ Couns* 84(2):e24-7, 2011.

Seow H, **Barbera L**, Howell D, Dy S. How end-of-life homecare services are used from admission to death: A population based cohort study. *J Palliat Care* 26(4): 270-278, 2010.

Seow H, **Barbera L**, Sutradhar R, Howell D, Dudgeon D, Atzema C, Liu Y, Husain A, Sussman J, Earle C. The trajectory of cancer performance status and symptom scores in the last six months of life. *J Clin Oncol* 29(9): 1151-1158, 2011.

Shuhendler AJ, Cheung RY, Manias J, Connor A, **Rauth AM**, Wu XY. A novel doxorubicin-mitomycin C co-encapsulated nanoparticle formulation exhibits anti-cancer synergy in multidrug resistant human breast cancer cells. *Breast Cancer Res Treat* 119(2): 255-269, 2010.

Shuhendler AJ, Prasad P, Chan HK, Gordijo CR, Soroushian B, Kolios M, Yu K, O'Brien PJ, **Rauth AM**, Wu XY. Hybrid quantum dot-fatty acid ester stealth nanoparticles: toward clinically relevant in vivo optical imaging of deep tissue. *ACS Nano* 5(3): 1958-1966, 2011.

Shi W, Gerster K, Alajez N, Tsang J, Waldron L, Pintilie M, Hui A, Sykes J, P'ng C, Miller N, McCready D, Fyles T, **Liu F-F**. Micro-RNA 301 mediates proliferation and invasion in human breast cancer. *Cancer Res* 71(8): 2926-2937, 2011.

Shiue K, **Sahgal A**, **Chow E**, Lutz S, Chang E, Mayr N, Wang J, Cavaliere R, Mendel E, Lo S. The management of spinal cord compression from spinal metastases. *Expert Rev Anticancer Ther* 10(5): 697-708, 2010.

Sia MA, **Tsang RW**, Panzarella T, **Brierley JD**. Differentiated thyroid cancer with extrathyroidal extension: Prognosis and the role of external beam radiotherapy. *J Thyroid Res* 2010:183461, 2010.

Siddiqui K, Chopra R, Vedula S, Sugar L, **Haider M**, Boyes A, Musquera M, Bronskill M, Klotz L. MRI-guided transurethral ultrasound therapy of the prostate gland using real-time thermal mapping: Initial studies. *Urology* 76(6): 1506-1511, 2010.

Sisson JC, Freitas J, McDougall IR, Dauer LT, Hurley JR, **Brierley JD**, Edinboro CH, Rosenthal D, Thomas MJ, Wexler JA, Asamoah E, Avram AM, Milas M, Greenlee C, with the American Thyroid Association Taskforce On Radioiodine Safety. Radiation safety in the treatment of patients with thyroid diseases by radioiodine <sup>131</sup>I: Practice recommendations of the American thyroid association. *Thyroid* 21(4): 335-346, 2011.

Smitsmans MH, de Bois J, Sonke JJ, **Catton CN**, **Jaffray DA**, Lebesque JV, van Herk M. Residual seminal vesicle displacement in marker-based image-guided radiotherapy for prostate cancer and the impact on margin design. *Int J Radiat Oncol Biol Phys* 80(2): 590-596, 2011.

Sobin LH, Compton CA, **Gospodarowicz M**, Greene FL, Gunderson LL, Jessup JM, Wittekind C. Evidence-based medicine: The time has come to set standards for staging. Is a radical overhaul really needed? *J Pathol* 221(4): 361-362, 2010.

Soliman H, **Bezjak A**, **Sahgal A**, **Tsao M**. Treatment of brain metastases: Striving to improve patient outcomes. *J Pain Manage* 4(2): 139-147, 2011.

Soliman H, **Cheung P**, Yeung L, **Poon I**, **Balogh J**, **Barbera L**, **Spayne J**, **Danjoux C**, Dahele M, **Ung Y**. Accelerated hypofractionated radiotherapy for early stage non-small cell lung cancer: Long-term results. *Int J Radiat Oncol Biol Phys* 79(2): 459-465, 2011.

**Stanescu T**, Jans H, Wachowicz K, Fallone BG. Investigation of a 3D system distortion correction method for MR images. *J Appl Clin Med Phys* 11(1): 2961, 2010.

Stanford J, Schwartz M, Gardner S, **Davey P**. Does the surgical resection of a brain metastasis alter the planning and subsequent local control achieved with radiosurgery prescribed for recurrence at the operated site? *Br J Neurosurg* (published online February 2011).

Stern RL, **Heaton R**, Fraser MW, Goddu SM, Kirby TH, Lam KL, Molineu A, Zhu TC. Verification of monitor unit calculations for non-IMRT clinical radiotherapy: Report of AAPM Task Group 114. *Med Phys* 38(2): 504-530, 2011.

**Stevens C**, Bondy S, **Loblaw DA**. Wait times in prostate cancer diagnosis and radiation treatment. *Can Urol Assoc J* 4(4): 243-248, 2010.

**Stevens CM**, **Huang SH**, Fung S, **Bayley AJ**, **Cho JB**, **Cummings BJ**, **Dawson LA**, **Hope AJ**, **Kim JJ**, **O'Sullivan B**, **Waldron JN**, **Ringash J**. Retrospective study of palliative radiotherapy in newly diagnosed head and neck carcinoma. *Int J Radiat Oncol Biol Phys* (published online October 14, 2010).

**Stevens CS**, Lemon B, Lockwood GA, **Waldron JN**, **Bezjak A**, **Ringash J**. The development and validation of a quality-of-life questionnaire for head and neck cancer patients with enteral feeding tubes: The QOL-EF. *Support Care Cancer* 19(8): 1175-1182, 2011.

Stewart J, Lim K, **Kelly V**, Xie J, **Brock KK**, Moseley J, **Cho YB**, **Fyles A**, Lundin A, Rehbinder H, Löff J, **Jaffray D**, **Milosevic M**. Automated weekly replanning for intensity-modulated radiotherapy of cervix cancer. *Int J Radiat Oncol Biol Phys* 78(2): 350-358, 2010.

Sturgeon JF, Moore MJ, Kakiashvili DM, Duran I, Anson-Cartwright LC, Berthold DR, **Warde PR**, **Gospodarowicz MK**, Alison RE, Liu J, Ma C, Pond GR, Jewett MA. Non-risk-adapted surveillance in clinical stage I nonseminomatous germ cell tumors: The Princess Margaret Hospital's Experience. *Eur Urol* 59(4): 556-562, 2011.

Strohm E, **Czarnota GJ**, Kolios, M. Quantitative measurements of apoptotic cell properties using acoustic microscopy. *IEEE Trans Ultrason Ferroelectr Freq Control*, 57(10):2293-304, 2010.

Strydhorst J, Caudrelier J, Clark B, Montgomery L, Fox G, **MacPherson MS**. Evaluation of a thermoplastic immobilization system for breast and chest wall radiation therapy. *Med Dosim* (36)1: 81-84, 2011.

Sultana A, Wronski MM, Karim KS, **Rowlands JA**. Digital X-ray imaging using avalanche a-Se photoconductor. *Sensors Journal IEEE* 10(2): 347-352, 2010.

Sutradhar R, **Barbera L**, Seow H, Howell D, Husain A, Dudgeon D. Multistate analysis of interval-censored longitudinal data: Application to a cohort study on performance status among patients diagnosed with cancer. *Am J Epidemiol* 173(4): 468-475, 2011.

**Szumacher E, Barnes E.** Palliative care: Patient understanding, preference and physician communication. *J Altern Med Res* 2(3): 297-308, 2011.

**Szumacher E, Wong J, Barker R.** The interprofessional radiation oncology rounds (IROR) as a new model of continuing education – Program evaluation. *JMIRS* 42(1): 10-14, 2011.

Taghibakhsh F, Reznik A, **Rowlands JA.** Silicon photomultipliers for positron emission tomography detectors with depth of interaction encoding capability. *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* 633(Supplement 1): S250-S254, 2011.

**Tan K, Feuz C, Bolderston A, Palmer C.** A literature review of preceptorship: A model for the medical radiation sciences? *JMIRS* 42(1): 15-20, 2011.

Taremi M, **Hope A**, Dahele M, Pearson S, Fung S, **Purdie T, Brade A, Cho J, Sun A, Bissonnette JP, Bezjak A.** Stereotactic body radiotherapy for medically inoperable lung cancer: Prospective, single-center study of 108 consecutive patients. *Int J Radiat Oncol Biol Phys* (published online Mar 4, 2011).

**Thomas, G.** Are we making progress in curing advanced cervical cancer? *J Clin Oncol* 29(13): 1654-1656, 2011.

Thoms J, **Bristow RG.** DNA Repair Targeting and Radiotherapy: A Focus on the Therapeutic Ratio. *Sem Rad Onc* 20(4): 217-22, 2010.

Thoms J, Goda JS, Zlotta AR, Fleshner NE, Van der Kwast T, Supiot S, **Warde P, Bristow RG.** Neoadjuvant Radiotherapy for Locally Advanced and High Risk Prostate Cancer. *Nature Reviews Clinical Oncology* 8:107-113, 2011.

Tinmouth J, Green J, Ko YJ, Liu Y, **Paszat L**, Sutradhar R, Rabeneck L, Urbach D. A population-based analysis of esophageal and gastric cardia adenocarcinomas in Ontario, Canada: Incidence, risk factors and regional variation. *J Gastrointest Surg* 15(5): 782–790, 2011.

Tinmouth J, Ritvo P, McGregor SE, Claus D, Pasut G, Myers RE, Guglietti C, **Paszat LF**, Hilsden RJ, Rabeneck L. A qualitative evaluation of strategies to increase colorectal cancer screening uptake. *Can Fam Physician* 57(1): e7–e15, 2011.

Tolan S, Kong V, **Rosewall T, Craig T, Bristow R, Milosevic M, Gospodarowicz M, Chung P.** Patient specific PTV margins in radiotherapy for bladder cancer – A feasibility study using cone beam CT. *Radiother Oncol* 99(2): 131-136, 2011.

Tran W, **Gillies C.** Perspectives in implementing radiogenomics in radiotherapy. *JMIRS* 41(2): 79-86, 2010.

Travis LB, Beard C, Allan JM, Dahl AA, Feldman DR, Oldenburg J, Daugaard G, Kelly JL, Dolan ME, Hannigan R, Constine LS, Oeffinger KC, Okunieff P, Armstrong G, **Wiljer D**, Miller RC, Gietema JA, van Leeuwen FE, Williams JP, Nichols CR, Einhorn LH, Fossa SD. Testicular cancer survivorship: research strategies and recommendations. *Journal of the National Cancer Institute.* #02(15):1114-30, 2010.

Turner A, Goodbrand A, **Di Prospero L**. An investigation into the variability of breast tangent setups using the portal imaging process. *JMIRS* 42(1): 32-36, 2011.

Tyldesley S, Delaney G, Foroudi F, **Barbera L**, Kerba M, Mackillop W. Estimating the need for radiotherapy for patients with prostate, breast, and lung cancers: Verification of model estimates of need with radiotherapy utilization data from British Columbia. *Int J Radiat Oncol Biol Phys* 79(5): 1507-1515, 2011.

**Ung YC, Bezjak A**, Coakley N, Evans WK. Positron emission tomography with <sup>18</sup>Fluorodeoxyglucose in radiation treatment planning for non-small cell lung cancer: A systemic review. *J Thor Oncol* 6(1): 86-97, 2011.

Uy C, Jon F, Rosewell C, O'Hayon B, Hanna S, Bjarnason G, **Holden L**, Nguyen J, Ross M, Kwong J, **Sahgal A**, Khan L, Dennis K, **Chow E**. Suspicious perianal lesion in a patient with renal cell carcinoma. *J Pain Manage* 4(4), 2011.

Vaags AK, Gartley CJ, Halling KB, Dobson H, Zheng Y, **Foltz WD**, Dick AJ, Kruth SA, Hough MR. Migration of cells from the yolk sac to hematopoietic tissues after in utero transplantation of early and mid gestation canine fetuses. *Transplantation* 91(7): 723-730, 2011.

van Lonkhuijzen L, **Thomas G**. Palliative radiotherapy for cervical carcinoma: A systematic review. *Radiother Oncol* 98(3): 287-291, 2011.

Velec M, Mosely J, Eccles C, **Craig T, Sharpe M, Dawson LA, Brock KK**. Effect of breathing motion on radiotherapy dose accumulation in the abdomen using deformable registration. *Int J Radiat Oncol Biol Phys* 80(1): 265-272, 2011.

**Vesprini D**, Narod S, Crook J, Preiner J, Trachtenberg J, Sridhar S, **Bristow R**. The therapeutic ratio is preserved for radiotherapy or Cisplatin treatment in BRCA2-mutated prostate cancers. *Can Urol Assoc J* 5(2):E31-35, 2011.

**Vesprini D**, Sia M, Lockwood G, **Moseley D, Rosewall T, Bayley A, Bristow R, Chung P, Ménard C, Milosevic M, Warde P, Catton C**. Role of principal component analysis in predicting toxicity in prostate cancer patients treated with hypofractionated intensity-modulated radiation therapy. *Int J Radiat Oncol Biol Phys* (published online April 6, 2011).

Vlad RM, Kolios MC, Moseley JL, **Czarnota CJ, Brock KK**. Evaluating the extent of cell death in 3D high frequency ultrasound by registration with whole-mount tumor histopathology. *Med Phys* 37(8): 4288-4297, 2010.

Vlad RM, Hunt JW, Orlova V, Alajez NM, **Czarnota GJ**, Kolios GJ. Increase in cell size variance appears to explain part of the increases measured in ultrasound backscatter during cell death. *Ultrasound Med Biol*, 36(9): 1546-1558, 2010.

Wachowicz K, **Stanescu T**, Fallone BG. Implications of tissue magnetic susceptibility-related distortion on the rotating magnet in an MR-linac design. *Med Phys* 37(4): 1714-1721, 2010.

Wajstaub S, **Bezjak A**, Howarth D, King MH, **Catton CN**. A radio-sensitive primary osteosarcoma in the lung. *Int J Clin Oncol* 16(1): 67-70, 2011.

Walia JS, Neschadim A, Lopez-Perez O, Alayoubi A, Fan X, Carpentier S, Madden M, Lee CJ, Cheung F, **Jaffray DA**, Levade T, McCart JA, Medin JA. Autologous transplantation of lentivector/acid ceramidase-transduced hematopoietic cells in nonhuman primates. *Hum Gene Ther* 22(6):679-687, 2011.

Walker H, Anderson M, Farahati F, Howell D, Librach SL, Husain A, Sussman J, Viola R, Sutradhar R, **Barbera L**. Resource use and costs of end-of-life and palliative care: Ontario cancer patients dying during 2002 and 2003. *J Palliat Care* 27(2):79-88, 2011.

Wallenburg MA, Li S, Li R-K, **Vitkin IA**. Two-photon microscopy of healthy, infarcted and stem-cell treated regenerating heart. *J Biophotonics* 4(5): 297-304, 2011.

Wallenburg MA, Pop M, Wood MFG, Ghosh N, Wright GA, **Vitkin IA**. Comparison of optical polarimetry and diffusion tensor MR imaging for assessing myocardial anisotropy. *J Innov Opt Health Sci* 3(2): 109-121, 2010.

Wallenburg MA, Wood MFG, **Vitkin IA**. Polarimetry-based method to extract geometry-independent metrics of tissue anisotropy. *Opt Lett* 35(15): 2570-2572, 2010.

Wang W, **Purdie TG**, Rahman M, Marshall A, **Liu FF**, **Fyles A**. Rapid automated treatment planning process to select breast cancer patients for active breathing control to achieve cardiac dose reduction. *Int J Radiat Oncol Biol Phys* (published online November 17, 2010).

Warner E, **Paszat L**, Zhang L, **Chow E**, Metcalfe K, Whelan T, **Szumacher E**. Attitudes of Canadian radiation oncologists towards post-lumpectomy radiotherapy for elderly women with stage I hormone-responsive breast cancer. *Clin Oncol (R Coll Radiol)* 22(2): 97-106, 2010.

Wee W, Driscoll B, **Coolens C**. Methodology for visualization and perfusion analysis of 4D dynamic contrast-enhanced CT imaging. *Proceedings XVth ICCR*: 12439, 2010.

Wheatley-Price P, Yang B, Patsios D, Patel D, Ma C, Xu W, Leight N, Feld R, **Cho BC**, **O'Sullivan B**, Roberts H, **Tsao MS**, Tammemagi M, Anraku M, Chen Z, de Perrot M, Liu G. Soluble mesothelin-related Peptide and osteopontin as markers of response in malignant mesothelioma. *J Clin Oncol* 28(20): 3316-3322, 2010.

**Wiljer D**, Leonard K, Urowitz S, Apatu E, Massey C, Quartey NK, **Catton P**. The anxious wait: assessing the impact of patient accessible EHRs for breast cancer patients. *BMC Medical Informatics and Decision Making*. Toronto, Ontario. 10(1):46, 2010.

Williams J, Brown S, Georges G, Hauer-Jensen M, **Hill RP**. et al. Animal models for medical countermeasures to radiation exposure. *Radiat Res*. 173(4):557-78, 2010.

Wood MFG, Ghosh N, Wallenburg MA, Li S, Weisel RD, Wilson BC, Li R-K, **Vitkin IA**. Polarization birefringence measurements for characterizing the myocardium, including healthy, infarcted, and stem cell regenerated tissues. *J Biomed Opt* 15(4): 047009, 2010.



Wood MFG, Vurgun N, Wallenburg MA, **Vitkin IA**. Effect of formalin fixation on tissue optical polarization properties. *Phys Med Biol* 56(8): N115-122, 2011.

Wong J, Mendelsohn D, **Nyhof-Young J**, Bernstein M. A qualitative assessment of the supportive care and resource needs of patients undergoing craniotomy for benign brain tumours. *Support Care Cancer* (published online October 27, 2010).

Wong JJ, D'Alimonte L, Angus J, **Paszat L**, Soren B, **Szumacher E**. What do older patients with early breast cancer want to know while undergoing adjuvant radiotherapy? *J Cancer Educ* 26(2): 254-261, 2011.

Wronski MM, Zhao W, Reznik A, Tanioka K, DeCrescenzo G, **Rowlands JA**. A solid-state amorphous selenium avalanche technology for low photon flux imaging applications. *Med Phys* 37(9): 4982-4985, 2010.

Wu K, **Ung YC**, Hwang D, **Tsao MS**, Darling G, Maziak DE, Tirona R, **Mah K**, **Wong CS**. Autocontouring and manual contouring: Which is the better method for target delineation using 18F-FDG PET/CT in non-small cell lung cancer? *J Nucl Med* 51(10): 1517-1523, 2010.

Wu K, **Ung YC**, Hornby J, Freeman M, Hwang D, **Tsao M**, Dahele M, Darling G, Maziak D, Tirona R, **Mah K**, **Wong S**. PET CT threshold for radiation therapy target definition in non-small cell lung cancer: How close are we to pathology? *Int J Radiat Oncol Biol Phys* 77(3): 699-706, 2010.

Yang C, Stadler W, Karczmar G, **Milosevic M**, **Yeung I**, **Haider M**. Comparison of quantitative parameters in cervix cancer measured by dynamic contrast enhanced MRI and CT. *Magn Reson Med* 63(6): 1601-1609, 2010.

**Yeboah C**, Karotki A, Hunt D, Holly R. Quantification and reduction of peripheral dose from leakage radiation on Siemens primus accelerator in electron therapy mode. *J Appl Clin Med Phys* 11(3): 3105, 2010.

You B, **Brade A**, Magalhaes JM, Siu LL, Oza A, Lovell S, Wang L, Hedley DW, Nicacio LV, Chen EX. A dose-escalation phase I trial of nimotuzumab, an antibody against the epidermal growth factor receptor, in patients with advanced solid malignancies. *Invest New Drugs* (published online May 8, 2010).

Yu Z, Shao W, Chiang Y, **Foltz W**, Zhang Z, Ling W, Fantus IG, Jin T. Oltipraz upregulates the nuclear factor (erythroid-derived 2)-like 2 [corrected](NRF2) antioxidant system and prevents insulin resistance and obesity induced by a high-fat diet in C57BL/6J mice. *Diabetologia* 54(4): 922-934, 2010.

Zeng L, **Chow E**, Zhang L, Culleton S, **Holden L**, **Jon F**, Khan L, Uy C, **Tsao M**, **Barnes E**, **Danjoux C**, **Sahgal A**. Analysis of pain and interference patterns with brief pain inventory in patients with bone metastases: A confirmatory study. *World J Oncology* 2(3): 123-132, 2011.

Zeng L, **Chow E**, Zhang L, Culleton S, **Holden L**, **Jon F**, Khan L, **Tsao M**, **Barnes E**, **Danjoux C**, **Sahgal A**. Comparison of pain response and functional interference outcomes between spinal and non-spinal bone metastases treated with palliative radiotherapy. *Support Care Cancer* (published online April 8, 2011).

Zeng L, Koo K, **Jon F**, Dennis K, **Holden L**, Nguyen J, **Tsao M**, **Barnes T**, **Danjoux C**, **Sahgal A**, **Chow E**. Fatigue in advanced cancer patients attending an outpatient palliative radiotherapy clinic as screened by the Edmonton Symptom Assessment System. *Support Care Cancer* (published online May 4, 2011).

Zeng L, **Sahgal A**, Zhang L, Koo K, **Holden L**, **Jon F**, **Tsao M**, **Barnes E**, **Danjoux C**, Dennis K, Khan L, **Chow E**. Patterns of pain and functional improvement in patients with bone metastases after conventional external beam radiotherapy and a telephone validation study. *J Pain Res Tmt Article ID 601720*, 2011.

Zeng L, Zhang L, Culleton S, **Jon F**, **Holden L**, Kwong J, Khan L, **Tsao M**, **Danjoux C**, **Sahgal A**, **Barnes E**, **Chow E**. Edmonton symptom assessment scale as a prognosticative indicator in patients with advanced cancer. *J Pall Med* 14(3): 337-342, 2011.

**Zhang B**, MacFadden D, Damyanovich AZ, Rieker M, Stainsby J, Bernstein M, **Jaffray DA**, Mikulis D, **Ménard C**. Development of a geometrically accurate imaging protocol at 3 Tesla MRI for stereotactic radiosurgery treatment planning. *Phys Med Biol* 55(22): 6601-6615, 2010.

Zheng J, Allen C, Serra S, **Vines D**, Charron M, **Jaffray DA**. Liposome contrast agent for CT-based detection and localization of neoplastic and inflammatory lesions in rabbits: Validation with FDG-PET and histology. *Contrast Media Mol Imaging* 5(3): 147-154, 2010.

## Non Peer-Reviewed Publications

Battista JJ, Clark BG, Patterson M, Beaulieu L, **Sharpe MB**, Schreiner LJ, **MacPherson MS**, Van Dyk J. Medical physics staffing for Radiation Oncology: report on a decade of experience in Ontario, Canada. Radiotherapy and Oncology, 2011.

**Catton C**. The role of radiation therapy in prostate cancer after radical prostatectomy: when and why? Curr Opin Support Palliat Care. July 5, 2010.

**Chung C**. New hope for patients with brain metastases. Connexions – RMP Newsletter 1(1), 2010.

Davison M, Kim D, **Keller H**. Radiotherapy dose fractionation under parameter uncertainty. Applied mathematics, modeling, and computational science conference, Waterloo, 2011.

**Davidson M**, Blake S, **Mah K**. A Comparative VMAT, IMRT, and Helical Tomotherapy Planning Study for Prostate and Head and Neck Cancers, Elekta Inc., Sweden, 2010.

**Feuz C**. The class of 2011 returns to RMP. Rad-ucation 1(1):2, 2010.

**Feuz, C**. The class of 2011 returns to RMP. RMP News 9(5):3, 2010.

**Gillan C**. The buck stops with us: the role of the clinical radiation therapist in assuring quality radiotherapy in Canada. Journal of Medical Imaging and Radiation Sciences, 2011.

Hayden AJ, **Catton C**, Pickles T. Radiation therapy in prostate cancer: a risk-adapted strategy. Curr Oncol Suppl 2:S18-24, 2010.

**McLean M**. Breaking new ground in a new year. Curr Oncol 18(1): 5, 2011.

**Milosevic M** and the Canadian Partnership for Quality Radiotherapy (CPQR) steering committee. Quality assurance guidance for Canadian radiation treatment programs, 2011.

Schwartz F, Hutchings T, Jusko Friedman A, Quartey NK, Urowitz S, **Wiljer D**, Smith R. Moving toward an organized approach to patient education in Canadian hospitals. Healthcare Quarterly 13(4):84-88, 2010.

## Books and Book Chapters

Bedi H, Hird A, Campos S, **Chow E**. Symptom clusters in metastatic cancer - a critical appraisal. Chapter 12. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 129-144.

Bedi H, Kwong J, **Chow E**. Symptom cluster and gender differences research in patients with metastatic cancer. Chapter 24. In: Bone and brain metastases: advances in research and treatment. Sahgal A, Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 357-371.

Bedi H, Presutti R, Hird A, Campos S, Zhang L, Mitera G, **Sinclair E, Barnes E, Tsao M, Sahgal A, Danjoux C**, DeAngelis C, **Chow E**. Gender difference in the Edmonton Symptom Assessment System (ESAS) scores in patients with advanced cancer. Chapter 15. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 165-175.

**Bissonnette J-P**, Quality assurance and commissioning in Radiotherapy: conventional linac treatments. In Quality Assurance and Safety for Radiotherapy. Pawlicki T et al. (Eds.), Boca Raton: Taylor & Francis, 2010. 317-321.

**Brade AM**, Zishan A. Chapter 16: Radiation sensitizers. In: Advances in Radiation Oncology of Lung Cancer, (2<sup>nd</sup> edition). Jeremic B (Eds.), New York: Springer. 2011.

**Breen SL**, Girard K. Process control and quality improvement. In: Quality and Safety in Radiotherapy. Pawlicki T, Dunscombe PB, Mundt AJ, Scalliet P (Eds.), Boca Raton: Taylor & Francis. 2011. 37-42.

**Brierley J**. External beam radiotherapy in thyroid cancer. In: A Guide for Patients. Van Nostrand D, Wartofsky L, Bloom G, Kulkarnia K (Eds.). 2nd Keystone Press, Pasadena 2010. 207-222.

Campos S, Zhang L, **Chow E**. Determining reliability of patient perceptions of important bone metastases quality of life issues. Chapter 21. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 233-246.

Campos S, Zhang L, **Sinclair E, Tsao M, Barnes E, Danjoux C, Sahgal A**, Goh P, Culleton S, Mitera G, **Chow E**. The palliative performance scale: examining its correlation to Karnofsky performance scale in an outpatient palliative radiation oncology clinic. Chapter 18. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 201-212.

Chaudary N, Hedley, DW, **Hill RP**. Orthotopic xenograft model of cervical cancer for studying microenvironmental effects on metastasis formation and response to drug treatment. Current Protocols in Pharmacology Section 14: Animal Models of Oncology and Tumor Biology. 2010.

Chin LCL, Whelan WM, **Vitkin IA**. Interstitial optical fiber sensors in biomedicine. In: Optical-Thermal Response of Laser Irradiated Tissue. 2nd Edition. Welch AJ and van Gemert MG (Eds), New York: Springer. 2011. 661-712.

**Cho BC, Bezjak A**. Stereotactic body radiotherapy for lung cancer. In: Cardiothoracic Surgery Review. Franco KL and Thourani VH (eds). Philadelphia: Lippincott Williams & Wilkins. 2010.

**Cho YB, Zhang B**, Bernstein M, **Sahgal A**. Gamma knife technology for radiosurgery of brain metastasis. In: Bone and brain metastases: Advances in research and treatment. Sahgal A, Chow E, Merrick J (Eds.). Nova Science Publishers Inc. New York, NY, United States. 2010. 333-347.

**Chow E**, Hird A, **Wong, R**, Zhang L, Wu J, **Barbera L, Tsao M, Barnes E, Danjoux C**. Validation of meaningful change in pain scores in the treatment of bone metastases. Chapter 13. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 145-151.

**Chow E**, Hruby G, Harris K, Enright K, **Sinclair E**, Chan G. Determining the accuracy of health care professionals in predicting the survival of patients with advanced metastatic cancer. Chapter 16. In:

Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 177-189.

**Chow E, Tsao M, Sahgal A, Barnes E, Danjoux C, Mitera G, Sinclair E.** Need for post procedure radiation therapy after kyphoplasty or vertebroplasty/cementoplasty for bony metastatic disease. Chapter 10. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 119-120.

**Chung HT, Shiao S, Schechter N.** Hodgkin's lymphoma. In: Handbook of Evidence-Based Radiation Oncology, 2<sup>nd</sup> Edition. Hansen EK, Roach MR (Eds), New York: Springer. 2010. 563-582.

**Chung HT, Shiao S, Schechter N.** Non-Hodgkin's lymphoma. In: Handbook of Evidence-Based Radiation Oncology, 2<sup>nd</sup> Edition. Hansen EK, Roach MR (Eds). New York: Springer. 2010. 583-592.

Clarke A, Brierley B, **Kim J.** Short Course versus Long Course Preoperative Radiation Therapy. In: Rectal Cancer Radiation Medicine Rounds: Lower GI Malignancies. Ben-Josef E and Koong A (Eds.). Demos Medical Publishing. 2011. 305-322.

Culleton S, Hird A, Nguyen J, Emmenegger U, Verma S, Simmons C, **Barnes E, Tsao M, Sahgal A, Danjoux C, Mitera G, Sinclair E, Chow E.** Bisphosphonates in combination with radiotherapy for the treatment of bone metastases: A literature review. Chapter 5. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 55-68.

Culleton S, Kwok S, **Chow E.** Conventional radiation treatment of bone metastases. Chapter 2. In: Bone and brain metastases: advances in research and treatment. Sahgal A, Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 27-39.

Culleton S, Pang J, Zhang L, Presutti R, Nguyen J, Mitera G, **Sinclair E, Barnes E, Tsao M, Danjoux C, Sahgal A, Chow E.** Are baseline ESAS symptoms related to pain response in patients treated with palliative radiotherapy for bone metastases? Chapter 6. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 69-76.

Culleton S, Zhang L, **Sinclair E, Barnes E, Tsao M, Danjoux C, Campos S, Goh P, Chow E.** Improvement of ESAS symptoms following palliative radiation for bone metastases. Chapter 7. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 77-86.

Dai C, Nash M, **Chung HT.** Esophageal Cancer. In: Handbook of Evidence-Based Radiation Oncology, 2<sup>nd</sup> Edition. Hansen EK, Roach MR (Eds). New York: Springer. 2010. 315-330.

Dai C, Yu J, **Chung HT.** Gastric Cancer. In: Handbook of Evidence-Based Radiation Oncology, 2<sup>nd</sup> Edition. Hansen EK, Roach MR (Eds). New York: Springer. 2010. 331-346.

Erickson B, Lim K, Stewart J, Donnelly E, Small W, **Fyles A, Milosevic M.** Adaptive Radiation Therapy for Gynecologic Cancers. In: Imaging in Medical Diagnosis and Therapy: Adaptive Radiation Therapy. X. Allen Li (Ed.), Milwaukee: CRC Press, Taylor and Francis Group. 2011. 351-368.

Fairchild A, Hird A, **Chow E**. Pain control with palliative radiotherapy in bone metastases. In: Recent advances in bone cancer progression and therapeutic approaches. Heymann D (Ed.). Research Signpost 2010. 297-312.

Flynn C, Clemons M, Zhang L, **Chow E**. The test-retest reliability of the European organization for research and treatment of cancer quality-of-life group bone metastases module (EORTC QLQ-BM22) questionnaire. Chapter 20. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 225-232.

Gillis A, **Chung HT**, Prasad G. Anal Cancer. In: Handbook of Evidence-Based Radiation Oncology, 2<sup>nd</sup> Edition. Hansen EK, Roach MR (Eds). New York: Springer. 2010. 395-410.

**Hill RP**, Chaudary N. Influence of hypoxia on metastatic spread in tumor microenvironment. Ed. Dietmar W. Siemann, Wiley-Blackwell, USA. 2011. 311-328.

Hird A, Clemons M, Zhang L, **Chow E**. Skeletal related events in patients with metastatic bone disease. Chapter 11. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 123-127.

Hird A, **Wong R**, Flynn C, Hadi S, de Sa E, Zhang L, DeAngelis C, **Chow E**. Impact of pain flare on patients treated with palliative radiotherapy for symptomatic bone metastases. Chapter 8. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 87-94.

Hoebbers FJP, Ferguson PC, **O'Sullivan B**. Bone. In: Human Radiation Injury. Shrieve DC and Loeffler JS (Eds), Philadelphia: Lippincott Williams & Wilkins. 2011. 481-498.

**Kim J**, Meyer JL and **Dawson LA**. IGRT and the New Practice of Radiotherapy What to Know and Use from a Decade of Investigation. In: IMRT-IGRT-SBRT –Advances in the Treatment Planning and Delivery of Radiotherapy. Meyer JL (Ed.). Front Radiat Ther Oncol. Basel, Karger. vol. 43. 2011.

Ma L, **Sahgal A**, Chuang C, Descovich M, Petti P, Smith V, Verhey L, Barbaro N, McDermott M, Huang K, Nakamura J, Sneed P, Larson D. Functional relationship between the volume of a near-target peripheral isodose line and its isodose value for gamma knife radiosurgery. Radiosurgery 7. 2010. 75-83.

Malawar M, Helman L, **O'Sullivan B**. Bone Tumors. In: Principles and Practice of Oncology, 9<sup>th</sup> edition. DeVita VT, Lawrence T, Rosenberg SA (Eds). 2011. 1578-1609.

Meyer JL, **Sharpe MB**, **Brock KK**, Deasy J, Craig T, **Moseley D**, Alaly J, Zakaryan K. Advanced technologies in the radiotherapy clinic: essential concepts and quality assurance, IMRT, IGRT, SBRT – Advances in the Treatment Planning and Delivery of Radiotherapy. ed 2, rev. and ext. Front Radiat Ther Oncol. Basel, Karger. vol. 43. 2011. 29–59.

**Milosevic, M**. Hypoxia, anerobic metabolism, and interstitial hypertension. In: Tumor Microenvironment. Siemann DW (Ed.), Chichester: John Wiley & Sons, Ltd. 2010. 183-205.

Mitera G, Rubenstein J, Finkelstein J, Davidson M, **Chow E**. Remineralization of an impending fracture from an osteolytic metastasis in a breast cancer patient from palliative radiotherapy and bisphosphonate.

A case report. Chapter 26. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 287-294.

Mitera G, **Sahgal A**, **Laperriere N**, **Loblaw A**. Management of malignant spinal cord compression. In: Bone and brain metastases: Advances in research and treatment. Sahgal A, Chow E, Merrick J (Eds.). Nova Science Publishers Inc. New York, NY, United States. 2010. 55-69.

Mitera G, Zeiadin N, **Sahgal A**, Finkelstein J, **Chow E**, **Loblaw A**. Quality of life measures used in radiation therapy trials for patients with metastatic spinal cord compression (MSCC): a literature review. Chapter 19. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 215-224.

Nash MB, **Chung HT**, Mishra KK. Colorectal cancer. In: Handbook of Evidence-Based Radiation Oncology, 2<sup>nd</sup> Edition. Hansen EK, Roach MR (Eds). New York: Springer. 2010. 381-394.

Nguyen J, Chung M, Ford M, Goh P, Rubenstein J, **Sinclair E**, Mitera G, **Chow E**. Surgical stabilization of severely destructive upper cervical lytic bone metastases. Chapter 23. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds). New York: Nova Science Publishers, Inc. 2010. 263-269.

Nguyen J, **Sahgal A**, **Chow E**, Danielson B. Quality of life in brain metastases. Chapter 16. In: Bone and brain metastases: advances in research and treatment. Sahgal A, Chow E and Merrick J (Eds). New York: Nova Science Publishers, Inc. 2010. 217-237.

Nguyen J, **Sahgal A**, **Chow E**, Danielson B. Quality of life research in brain metastases. In: Bone and brain metastases: Advances in research and treatment. Sahgal A, Chow E, Merrick J (Eds). Nova Science Publishers Inc. New York, NY, United States. 2010. 221-241.

Nguyen J, **Sahgal A**, **Sinclair E**, Mitera G, Farhadian M, **Danjoux C**, Finkelstein J, Yee A, Ford M, Pugash R, Emmenegger U, Chakraborty A, **Chow E**. Innovative palliative programs: rapid response radiotherapy program and multidisciplinary bone metastases clinic. Chapter 1. In: Bone and brain metastases: advances in research and treatment. Sahgal A, Chow E and Merrick J (Eds). New York: Nova Science Publishers, Inc. 2010. 3-25.

Nguyen J, **Sinclair E**, Yee A, Finkelstein J, Ford M, Chakraborty A, Farhadian M, Pugash R, Mitera G, **Danjoux C**, **Barnes E**, **Tsao M**, **Sahgal A**, **Chow E**. A multidisciplinary bone metastases clinic at Sunnybrook Odette Cancer Centre. A review of the experience from 2006-2008. Chapter 14. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 153-164.

Oliver T, **Chung P**, Powles T, Jewett M. Treatment: seminomas: stage 1. In: Chapter of the Testis. Pillar Laguna M, Albers P, Bokkemeyer C, Ritchie JP (Eds.). London: Springer-Verlag. 2010. 167-181.

**O'Sullivan B** and Shah JP. Head and Neck Cancer Staging and Prognosis. Perspectives of the UICC and the AJCC. In: Head and Neck Cancer: Multimodality Management. Bernier J (Ed.). Heidelberg: Springer. 2011. 135-155.

Pang J, Jenkinson R, Mitera G, Donovan A, Pugash R, Trudeau M, Quinton C, **Sinclair E**, Nguyen J, Presutti R, **Chow E**. Cemented hemiarthroplasty, percutaneous acetabular cementoplasty and post-operative radiation for a high risk lesion of the hip. Chapter 25. In: Advanced cancer. Pain and quality of

life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 279-285.

Pang J, Panzarella T, **Chow E**. Survival predication. Chapter 26. In: Bone and brain metastases: advances in research and treatment. Sahgal A, Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 389-419.

Pisters P, **O'Sullivan B**. Soft tissue sarcomas. In: Cancer Medicine, 8th edition. Holland JF and Frei E (Eds). 2011. 1517-43.

Presutti R, Campos S, Finkelstein J, Rubenstein J, **Sinclair E**, Mitera G, **Chow E**. When all else fails: simple bracing for the relief of intractable pain. Chapter 24. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 271-277.

Presutti R, Hird A, DeAngelis C, Fairchild A, Holt T, **Loblaw A**, **Chow E**. Pain flare following palliative radiotherapy of bone metastases. Chapter 14. In: Bone and brain metastases: advances in research and treatment. Sahgal A, Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 181-195.

Presutti R, Nguyen J, Hird A, Fairchild A, Clemons M, Kerba M, **Sahgal A**, **Chow E**. Quality of life research in bone metastases. In: Bone and brain metastases: Advances in research and treatment. Sahgal A, Chow E, Merrick J (Eds.). Nova Science Publishers Inc. New York, NY, United States. 2010. 202-219.

Presutti R, Zhang L, Hird A, Deyell M, **Chow E**. Exploring the optimal definitions of partial response and pain progression in patients receiving radiation treatment for painful bone metastases? A preliminary analysis. Chapter 9. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 95-118.

Presutti R, Zhang L, **Tsao M**, **Barnes E**, **Danjoux C**, **Sahgal A**, Mitera G, **Sinclair E**, **Chow E**. Projected referral for health care services in an out-patient palliative radiotherapy clinic. Chapter 17. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 191-200.

Punnett A, **Tsang RW**, **Hodgson DC**. Hodgkin lymphoma across the age spectrum: epidemiology, therapy, and late effects. In: Tepper LE, Lawrence TS (Eds.). Guest Editor: Constine L. Seminars in Radiation Oncology, Elsevier, Philadelphia 2010. 17: 20(1): 30-44.

Rosen ST, Winter JN, Gordon LI, Evens AM, Nicolaou N, **Tsang RW**. Non-Hodgkin's lymphoma. In: Pazdur R, Coia LR, Hoskins WJ, Wagman LD (Eds.). 12<sup>th</sup> Edition, 2009-2010 cancer management: A multidisciplinary approach: medical, surgical & radiation oncology. CMP Healthcare Media. 2010.

**Sahgal A**. Clinical research in spinal cord tolerance to radiation. In: Bone and brain metastases: Advances in research and treatment. Sahgal A, Chow E, Merrick J (Eds.). Nova Science Publishers Inc. New York, NY, United States. 2010. 135-141.

**Sahgal A**, Ma L, Chuang C, Hossain S, Petti P, Larson D, Shrieve D. Comparisons of novalis and cyberknife spinal stereotactic body radiotherapy treatment planning based on physical and biologic modeling parameters. Radiosurgery 7. 2010. 366-377.



**Sahgal A**, Massicotte E, Rampersaud R, Yee A, Fehlings M, Lewis S, **Letourneau D**, Hyde D, Larson D, Ma L. Stereotactic body radiotherapy for spine tumors. In: Bone and Brain Metastases: Advances in research and treatment. Sahgal A, Chow E, Merrick J (Eds.). New York: Nova Science, 2010. 41-53.

**Sahgal A**, Wong CS, van der Kogel, A. Spinal cord. In: Radiation Injury. Shrieve, Loeffler (Eds.). Philadelphia: Lippincott Williams and Wilkins. 2010. 225-235.

Shaw M, **Chung P**, **Warde P**. Seminoma. In: Evidence –Based Urology. Dahm P, Dmochowski R (Eds.). A John Wiley & Sons, US, 2010. 351-357.

Singer S, Maki R, **O’Sullivan B**. Soft Tissue Sarcoma. In: Principles and Practice of Oncology, 9<sup>th</sup> edition. DeVita V.T., Lawrence T, Rosenberg S.A. (Eds). 2011. 1533-1577.

Sobin LH, **Gospodarowicz MK**, Wittekind CH. TNM Classification of Malignant Tumours, 7<sup>th</sup> Edition. 2010.

Soliman H, **Bezjak A**, **Sahgal A**, **Tsao M**. University of Toronto department of radiation oncology research on the treatment of brain metastases: Striving to improve patient outcomes. In: Bone and brain metastases: Advances in research and treatment. Sahgal A, Chow E, Merrick J (Eds.). Nova Science Publishers Inc. New York, NY, United States. 2010. 145-156.

Song WY, **Bissonnette J-P**, Linear accelerator–based MV and kV imaging systems. In: Quality Assurance and Safety for Radiotherapy. Pawlicki T et al. (Eds.), Boca Raton: Taylor & Francis, 2010. 445-448.

Wan JF, **Bezjak A**. Superior vena cava syndrome. Hematol Oncol Clin North Am 24(3): 501-513, 2010.

Yahalom J, Rimner A, **Tsang RW**. Salvage therapy for relapsed and refractory Hodgkin Lymphoma. In: Radiotherapy for Hodgkin Lymphoma. Specht L and Yahalom J. Berlin: Springer-Verlag. 2011.

Zhang L, Nguyen J, Hird A, **Chow E**. Shortening the bone metastases quality of life instrument tool. Chapter 22. In: Advanced cancer. Pain and quality of life. Chow E and Merrick J (Eds.). New York: Nova Science Publishers, Inc. 2010. 247-259.

## Abstracts

Abed J, Bayley A, Bristow R, Brock K, Catton C, Chung P, Haider M, Iupati D, Lee J, Ménard C, Milosevic M, Morton G, Publicover J, Simeneov A, Warde P. MRI and biopsy performance in delineating recurrent tumor boundaries after radiotherapy for prostate cancer. International Society for Magnetic Resonance in Medicine (ISMRM) 19th Annual Meeting, Montreal. Proc Intl Soc Mag Reson Med 19: 3072, 2011.

Abed J, Rink A, Beiki-Ardakani, Publicover J, O'Leary G, Iupati D, Jaffray D, Ménard C. Augmenting the accuracy of MRI-based HDR brachytherapy for prostate cancer using on-line x-ray guidance during delivery. American Brachytherapy Society (ABS), 32nd Annual Meeting, San Diego, USA. Brachytherapy 10(Suppl 1): S84-S85, 2011.

Aerts H, Dekker A, Lavoie C, Green S, Michielsen J, De Ruyscher D, Vines D, Sun A. Identification of residual metabolic-active areas within lung tumors using a pre-radiotherapy FDG-PET-CT scan. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. Int J Radiat Oncol Biol Phys 78(3) S1: S510-511, 2010.

Afsharpour H, Landry G, Reniers B, Pignol JP, Beaulieu L, Verhaegen F. Breast tissue modeling in Monte Carlo post-implant evaluation of breast LDR brachytherapy. Groupe Européen de Curiethérapie and the European Society for Therapeutic Radiology and Oncology (GEC-ESTRO) International Oncology Forum (EIOF) 11th Anniversary Biennial, London, United Kingdom. Radiother Oncol 99(Suppl 1): S30 81, 2011.

Amin M, Norrlinger B, Heaton R. The Measurement of kQ factor for the FC65-G water proof Chamber in 6, 10 and 18 MV Beams. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. Med Phys 37(6): 3097, 2010.

Arif SS, Bayley A, O'Sullivan B, Cummings BJ, Fung S, Yu E, Breen S, Chen E, Waldron JN, Kim JJ. Patterns of Failure after Intensity-Modulated Radiation Therapy (IMRT) for Nasopharyngeal Cancer, ASTRO Annual Meeting, San Diego, USA. Int J Radiat Oncol Biol Phys 78(3), S459 #2573, 2010.

Artan Y, Haider MA, Yetik IS. Prostate cancer segmentation using multispectral random walks. International Workshop on Prostate Cancer Imaging, Medical Image Computing and Computer Assisted Intervention (MICCAI) 13th International Conference, Beijing, China. Prostate Cancer Imaging: Computer aided Diagnosis, Prognosis and Intervention 6367:15-24, 2010.

Assefa D, Keller H, Jaffray DA. Multiparametric MR image processing using higher-dimensional vector algebra. International Association of Science and Technology for Development (IASTED) International Symposia on Image and Signal Processing in Healthcare and Technology (ISPHT), Washington, USA, Conference Proceedings, 2011.

Barbera L, Seow H, Howell D, Sutradhar R, Earle C, Liu Y, Stitt A, Husain A, Sussman J, Dudgeon D. Symptom burden and performance status in a population based cohort of cancer patients. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. Radiother Oncol 96(Suppl 2): S12 A35, 2010.

**Batchelar DL**, Blake S, **Loblaw DA**, **Chung H**, Law N, Cisecki T, **Morton GC**. Can intraoperative US-based planning effectively replace postoperative CT-based planning for HDR prostate brachytherapy? American Brachytherapy Society (ABS), 32nd Annual Meeting, San Diego, USA. Brachytherapy 10(Suppl 1): S27, 2011.

**Batchelar DL**, Law N, Cisecki T, **Loblaw DA**, **Chung H**, **Morton GC**. Does intraoperative ultrasound-based planning for HDR prostate brachytherapy reduce needle displacement? American Brachytherapy Society (ABS), 32nd Annual Meeting, San Diego, USA. Brachytherapy 10(Suppl 1): S92, 2011.

**Bayley A**, **Rosewall T**, **Bristow R**, **Chung P**, **Gospodarowicz M**, **Ménard C**, **Milosevic M**, **Warde P**, **Catton C**. Is maximum grade sufficient when reporting late GI toxicity after pelvic radiotherapy for prostate cancer? Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. Radiother Oncol 96(Suppl 2): S9 A26, 2010.

Beiki-Ardakani A, Krema H, **Sahgal A**, Simpson R, Jezioranski J, **Heydarian M**, Xu W, Weisbrod D, **Payne D**, **Laperriere N**. Retrospective evaluation of symmetrically loaded COMS plaques for juxtapapillary choroidal melanoma patients using plaque simulator. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. Med Phys 37(6): 3203, 2010.

Belderbos J, **Hope A**, Kestin L, Guckenberger M, Werner-Wasik M, Sonke J, **Bissonnette J**, Xiao Y, Yan D, Grills I. Time interval between staging FDG positron emission tomography (PET) and initiation of stereotactic lung radiotherapy (SBRT) impacts the risk of recurrence and metastasis in non-small cell lung cancer (NSCLC). American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. Int J Radiat Oncol Biol Phys 78(3) S1: S33, 2010.

Bernad D, McAndrews M, Kong I, Becker S, Shah M, Wojtowicz M, Cusimano M, **Laperriere N**, Mikulis D, **Ménard C**. The effects of low dose Hippocampal radiation exposure on memory in patients receiving stereotactic radiosurgery for benign neurological disorders. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. Int J Radiat Oncol Biol Phys 78(3) S1: S169-S170, 2010.

Bernard M, **Tsang R**, Le LW, Freeman M, **Hodgson D**, Kuruvilla M, Kukreti V, **Sun A**, **Wells W**, Crump M, **Gospodarowicz M**. Clinical impact of positron emission tomography in response assessment of lymphoma patients with residual abnormalities following initial treatment. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. Radiother Oncol 96(Suppl 2): S59 A183, 2010.

Bernard M, **Tsang RW**, Le LW, **Hodgson DC**, Kuruvilla J, Kukreti V, **Sun A**, **Wells W**, Crump M, **Gospodarowicz MK**. Positron emission tomography for response assessment of lymphoma patients having residual abnormalities following initial treatment: The impact on clinical management. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. Int J Radiat Oncol Biol Phys 78(3) S1: S555, 2010.

Bernard M, **Tsang RW**, Le LW, **Hodgson DC**, **Sun A**, **Wells W**, Crump M, **Gospodarowicz M**. Limited-stage mantle-cell lymphoma: The Princess Margaret Hospital experience. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. Radiother Oncol 96(Suppl 2): S20 A61, 2010.

Berrang TS, Olivotto I, Kim DH, Nichol A, **Cho BC**, **Mohamed IG**, Parhar T, Wright JR, Truong P, Tyldesley S, Sussman J, Wai E, Whelan T. Three-year outcomes of a Canadian multicenter study of accelerated partial breast irradiation using conformal radiation therapy. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S26 A77, 2010.

**Brade A**, **Bezjak A**, MacRae R, Laurie S, **Cho J**, **Hope A**, **Sun A**, Wang L, Capobianco S, Iscoe N, Shepherd F. A phase II study of concurrent pemetrexed (P)/ cisplatin (C)/ radiation (RT) for unresectable stage IIIA/B non-small cell lung cancer (NSCLC). Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S19, A56, 2010.

**Bristow RG**, Ishkanian, Mallof C, **Milosevic M**, Pintilie, van der Kwast, Lam W. Use of Genetic Instability to Predict Biochemical Recurrence in Intermediate-Risk Prostate Cancer. ASCO 2011 Genitourinary Cancers Symposium, Orlando, USA. *J Clin Oncol* 29 suppl 7: A42, 2011.

**Brock K**, **Foltz W**, Jewett M, **Lee J**, McGrath D, **Ménard C**, Samavati N, van der Kwast T. Biomechanical property quantification of prostate cancer by quasi-static MR elastography at 7 tesa of radical prostatectomy, and correlation with whole mount histology. International Society for Magnetic Resonance in Medicine (ISMRM) 19th Annual Meeting, Montreal. *Proc Intl Soc Mag Reson Med* 19: 1483, 2011.

**Brock K**, Jackson E, Mayr N. Optimizing MR imaging for treatment planning. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. *Med Phys* 37(6): 3399, 2010.

Caissie A, **Holden L**, Presutti R, Nguyen J, Culleton S, **Sahgal A**, Zhang L, Zeng L, **Tsao M**, **Barnes E**, **Danjoux C**, Mitera G, **Chow E**. Pre-treatment symptom and quality of life in brain metastases patients. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S63 A195, 2010.

Caissie A, Nguyen J, **Sahgal A**, Culleton S, Zhang L, Zeng L, **Tsao M**, **Barnes E**, **Danjoux C**, **Chow E**. Bone metastases response to palliative radiation associated with improved BM22 and C15 symptom and quality of life scores. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S13 A40, 2010.

Caissie A, Zhang L, Clemons M, Fairchild A, Kerba M, Vassiliou V, Nguyen K, **Sahgal A**, Culleton S, **Chow E**. An international study of EORTC BM22 and C15 symptom/quality of life scores showing association with radiation response of bone metastases. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S602, 2010.

**Cho BC**, Feld R, Leighl N, de Perrot M. Acute toxicities observed with neoadjuvant short accelerated hemithoracic radiotherapy (RT) followed by extra-pleural pneumonectomy (EPP) for malignant pleural mesothelioma (MPM): preliminary results. International Mesothelioma Interest Group (IMIG) International Conference, Kyoto, Japan. Conference Proceedings S12-2:9 139, 2010.

**Chung C**, **Foltz W**, **Lindsay P**, Burrell K, Kallehauge J, Wildgoose P, Camphausen K, **Jaffray D**, Zadeh G. Intracranial murine tumor investigation of radiation and antiangiogenic agents using serial MRI. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S663, 2010.

**Chung C, Foltz W, Lindsay P, Burrell K, Kallehauge J, Wildgoose P, Kassner A, Camphausen K, Brade A, Milosevic M, Jaffray D, Zadeh G, Ménard C.** Intracranial murine tumour investigation of radiation and antiangiogenic agents using serial MRI. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S23 A70, 2010.

**Chung H, Sofroni E, Papanicolau N, Sugar L, Morton G, Yaffe M, Czarnota G.** Multi-modal real-time three-dimensional ultrasound-based imaging for detection of prostate cancer in men. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S23 A69, 2010.

**Chung HT, Sofroni E, Papanicolau N, Sugar L, Morton G, Yaffe M, Nam R, Czarnota GJ.** Three-dimensional ultrasound-based spectroscopic imaging for detection of prostate cancer in men. 2011 American Society of Clinical Oncology (ASCO) Genito-Urinary Cancer Symposium, Orlando, USA. *J Clin Oncol* 29(Suppl 7): A57, 2011.

Clarke K, Taremi M, Freeman M, Fung S, Bico-Ponce J, **Bezjak A, Brade A, Hope A, Cho J, Franks K, Dahele M, Sun A.** FDG PET SUV uptake in stereotactic body radiotherapy (SBRT) for non-small cell lung cancer (NSCLC). Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S57-58, A176, 2010.

Clarke KL, Taremi M, Freeman M, Fung S, Dahele M, **Bezjak A, Brade A, Cho J, Hope A, Sun A.** Stereotactic body radiotherapy (SBRT) for non-small cell lung cancer (NSCLC) – is FDG-PET a predictor of outcome? American Society for Radiation Oncology (American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S499-S500, 2010.

Clarke A, **Tsang R, Sun A, Hodgson D, Massey C, Pintilie M, Wells W, Crump M, Patil N, Gospodarowicz M.** Stage I-II follicular lymphoma: long term outcomes. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S60 A184, 2010.

Conrad T, **Tsang R, Coolens C, Sun A, Gospodarowicz M, Marshall A, Purdie T, Letourneau D, Guibord B, Hodgson D.** Active breath control to reduce normal tissue dose for young patients receiving mediastinal RT for Hodgkin lymphoma. International Symposium on Childhood, Adolescent and Young Adult Hodgkin Lymphoma (I-ISCAYAHL), Arlington, USA. *Pediatr Blood Cancer* 56(5): 888 V-5, 2011.

**Coolens C, Wee W, Driscoll B, Jaffray DA.** Novel methodology for visualisation and analysis of 4D Functional CT. Groupe Européen de Curiethérapie and the European Society for Therapeutic Radiology and Oncology (GEC-ESTRO) International. Oncology Forum (EIOF) 11th Anniversary Biennial, London, United Kingdom. *Radiother Oncol* 99(Suppl 1): S483 1293, 2011.

**Coolens C, Wee W, Driscoll B, Jaffray DA.** Novel methodology for visualization and analysis of functional vasculature for 4D DCE-CT. Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S22, 2010.

Crook J, Gomez A, Ma C, **McLean M, Fung S.** PSA profile of cured patients after iodine-125 prostate brachytherapy. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S7 A22-23, 2010.

Crump MC, Villa D, Kuruvilla J, Kukreti V, Franke N, **Tsang R**, Keating A. Autologous stem cell transplantation for adolescents and young adults with relapsed or refractory Hodgkin lymphoma. Eight International Symposium on Hodgkin Lymphoma, Cologne, Germany. *Haematologica* 95(Suppl 4): P086, 2010.

**D'Souza N, Loblaw DA**, Mamedov A, Sugar L, Nam R. Got central prostate pathology review? A cross-sectional audit of 2009 vs. 2003 outcomes. American Society of Clinical Oncology Genitourinary Cancers (ASCO-GU) Symposium, Orlando, USA. *J Clin Oncol* 29(Suppl 7): A196, 2011.

**D'Souza N, Loblaw DA**, Mamedov A, Sugar L, Nam R. Got central prostate pathology review? A cross-sectional audit of 2009 vs. 2003 outcomes. RTi3: Radiation Therapy Conference, University of Toronto Department of Radiation Oncology (UTDRO), Toronto. Conference Proceedings A39 P67, 2011.

**Davey P**, Schwartz M, Scora D, Ennis M, Smith J. Fractionated radiosurgery for recurrent brain metastases: long term outcomes. *Clin Onc* 23: S17, 2011. UK Radiation Oncology Conference (UKRO), Manchester, UK. *Clinical Oncology* 23(3): S17 A15, 2011.

**Di Prospero L**, Dawdy K, Peacock M, McGuffin M, **Moline K**. What your peers think: Faculty perspectives with incorporating peer assessments as part of the teaching and learning for mandatory simulation sessions of the clinical practicum course. RTi3: Radiation Therapy Conference, University of Toronto Department of Radiation Oncology (UTDRO), Toronto. Conference Proceedings A2 P32, 2011.

**Di Prospero L, Holden L**. Pain management: A needs assessment survey for radiation therapists at the Odette Cancer Centre to better counsel patients. RTi3: Radiation Therapy Conference, University of Toronto Department of Radiation Oncology (UTDRO), Toronto. Conference Proceedings A23 P53, 2011.

Dickie C, Griffin A, Parent A, **Chung P, Catton C**, Wunder J, Ferguson P, **Sharpe MB**, Bell RS, **O'Sullivan B**. Phase II study of preoperative intensity modulated radiation therapy for lower limb soft tissue sarcoma. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S1 S84-S85, 2010.

Dickie C, Parent, A, Griffin A, **Chung P, Catton C**, Wunder J, Ferguson P, **Sharpe M**, Bell R, **O'Sullivan B**. Phase II Study of Preoperative Intensity Modulated Radiation Therapy for Lower Limb Soft Tissue Sarcoma. Connective Tissue Oncology Society (CTOS), 16th Annual Scientific Meeting, Paris, France. Conference Proceedings 90 888581, 2010.

Dickie C, **Sharpe M**, Parent A, Griffin A, **Chung P, Catton C**, Wunder J, Ferguson P, **O'Sullivan B**. IMRT, designed with evidence- based bone avoidance objectives, reduces the risk of bone fracture in the management of extremity soft tissue sarcoma. European Society for Therapeutic Radiology and Oncology (ESTRO) Prediction, Recognition, Evaluation And Eradication Of Normal Tissue Effects Of Radiotherapy (PREVENT) Conference, Brussels, Belgium. *Radiother Oncol* 98(Suppl 2): S39 P90, 2011.

**Dinniwell R**, Lee G, Cho J. Topography of locoregional lymph node metastases and its impact on the radiotherapeutic clinical target volume in patients with locally advanced breast cancer. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S27 A81, 2010.

Do A, Lawrence K, **MacPherson M**, **McGowan T**, Wang Y. Prostate bed localization in post-prostatectomy image-guided radiation therapy. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. Med Phys 37(6): 3161, 2010.

Do A, Lawrence K, **MacPherson M**, **McGowan T**, Wang Y. Prostate bed localization in post-prostatectomy image-guided radiation therapy. European Society for Therapeutic Radiology and Oncology (ESTRO) ESTRO 29, Barcelona, Spain. Radiother Oncol 96(Suppl 1): S440 P1303, 2010.

Doll C, **Fyles A**, Aquino-Parsons C, Pintilie M, Klimowicz A, Petrillo S, **Milosevic M**, Clarke B, Craighead P, Lees-Miller S, Magliocco A. ERCC1 status in patients with locally advanced cervical cancer treated with RT or CRT: A CARO translational research group multicentre clinico-pathologic study. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. Radiother Oncol 96(Suppl 2): S22 A66, 2010.

Doll C, **Fyles A**, Aquino-Parsons C, Pintilie M, Klimowicz A, Petrillo S, **Milosevic M**, **Wouters B**, Olive P, Clarke B, Craighead P, Lees-Miller, S, Magliocco A. The impact of tumour co-expression of K1-67 and caix on survival in patients with locally advanced cervical cancer treated with rt or crt: A CARO translational research group multicentre clinicopathologic study. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. Radiother Oncol 96(Suppl 2): S21 A63, 2010.

Driscoll B, **Coolens C**, Henzen D, **Keller H**. Generation of physiologically relevant time-concentration curves using a novel dynamic flow imaging phantom. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. Med Phys 37(6): 3407, 2010.

Driscoll B, **Keller H**, **Coolens C**. Quantification and validation of DCE-CT using a novel dynamic flow imaging phantom. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. Med Phys 37(6): 3406, 2010.

Driscoll B, **Keller H**, **Coolens C**. Quantitative DCE-CT imaging quality assurance with a novel dynamic imaging flow phantom. Groupe Européen de Curiethérapie and the European Society for Therapeutic Radiology and Oncology (GEC-ESTRO) International. Oncology Forum (EIOF) 11th Anniversary Biennial, London, United Kingdom. Radiother Oncol 99(Suppl 1): S178 P443, 2011.

Edelstein K, Spiegler BJ, Fung S, Panzarella T, **Hodgson DC**, Mabbot DJ, **Laperriere N**, Tabori U, Bouffet, Mason WP. The cost of survival: Functional, physical, and neurocognitive function in very long-term medulloblastoma survivors. Society For Neuro-Oncology (SNO) 15th Annual Scientific Meeting, Montreal. Neurooncology 12(Suppl 4): 60 NC-13, 2010.

Englert DF, Wilson DJ, Dean D, Liederman J, Zafarana G, Albert M, Meng A, **Bristow RG**. System Verification of Ziplex®, a multiplex gene expression system for translational research and clinical diagnostics. American Association for Clinical Chemistry (AACC), 2010.

**Feuz C**, **Tan K**, **Flanagan W**. Lessons learned from the OR: How the introduction of a checklist has improved perceived outcomes for medical radiation science students. RTi3: Radiation Therapy Conference, University of Toronto Department of Radiation Oncology (UTDRO), Toronto. Conference Proceedings A31 P63, 2011

Gasparini A, Clarkson R, **Lindsay P**, Sonke JJ. Performance characterization of a high resolution imaging system for small animal radiation research. European Society for Therapeutic Radiology and Oncology (ESTRO) ESTRO 29, Barcelona, Spain. *Radiother Oncol* 96(Suppl 1): S321, P932 2010.

Giuliani M, **Lindsay PE**, **Brade AM**, **Sun A**, **Bezjak A**, Le LW, **Cho J**, Leighl N, Shepherd FA, **Hope AJ**. Outcomes of salvage therapy in patients with limited stage small cell lung carcinoma with isolated locoregional failure. Chicago Multidisciplinary Symposium in Thoracic Oncology, Chicago, USA. *J Thorac Onc* 5(Suppl 7): S550, 2010.

Giuliani M, **Lindsay P**, **Sun A**, **Bezjak A**, Le L, **Brade A**, Cho J, Leighl N, Shepherd F, **Hope A**. Patterns of failure in patients with limited-stage small cell lung carcinoma. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S495, 2010.

Giuliani M, **Nyhof-Young J**, Massey C, **Millar BA**, **Catton P**. Incorporating multi-source feedback into a radiation oncology resident assessment system. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2):S37 A112, 2010.

Giuliani M, **Sun A**, **Bezjak A**, Le L, **Brade A**, **Cho J**, Leighl N, Shepherd F, **Hope A**. Patterns of failure in patients with limited-stage small cell lung carcinoma. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S59, A182, 2010.

Gladwish A, Hoisak J, Kassner A, **Laperriere N**, **Liu F**, **Ménard C**, Sitartchouk I. Prognostic imaging markers in patients with GBM: Comparison between functional versus mean KPS analysis. International Society for Magnetic Resonance in Medicine (ISMRM) 19th Annual Meeting, Montreal. *Proc Intl Soc Mag Reson Med* 19: 4265, 2011.

Goda J, Le L, **Laperriere N**, **Millar BA**, **Payne D**, **Gospodarowicz M**, **Wells W**, **Hodgson D**, **Sun A**, Simpson R, **Tsang R**. Localized orbital malt lymphoma treated with radiation therapy (RT): long term outcomes including efficacy and toxicity. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S20 A60, 2010.

Goda JS, Le L, **Laperriere NJ**, **Miller B**, **Payne D**, **Gospodarowicz M**, **Wells W**, **Hodgson DC**, **Sun A**, **Tsang RW**. Long term efficacy and morbidity of moderate dose radiation therapy for stage IE orbital MALT lymphoma. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S83-S84 A178, 2010.

Grills IS, **Hope AJ**, Guckenberger M, Kestin LL, Werner-Wasik M, Yan D, Sonke J, **Bissonnette J**, Xiao Y, Belderbos J. A collaborative analysis of stereotactic lung radiotherapy (Lung SBRT) outcomes for stage I non-small cell lung cancer (NSCLC) using daily online cone-beam CT Image-guided Radiotherapy (CBCT-IGRT). American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S14 A31, 2010.

Guckenberger M, Belderbos J, **Hope AJ**, Kestin LL, Werner-Wasik M, Sonke JJ, Xiao Y, Dan Y, Wilbert J, Grills IS. Poor Pulmonary function is not Associated with Increased Rates of Toxicity or Decreased Overall Survival after Stereotactic Body Radiotherapy for Early Stage Non-small Cell Lung Cancer: Results of a Multi-Institutional Analysis. ASTRO Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3), Suppl 16, 2010.



Han K, Skliarenko J, **Craig T**, Le LW, **Cummings BJ**, **Bayley AJ**, **Brierley JD**, **Cho C**, **Dawson LA**, **Dinniwell R**, **Kassam Z**, **Ringash J**, **Wong RK**, Krzyzanowska MK, MacKay HJ, Morre MJ, Chen EX, Feld R, Knox J, **Kim JJ**. Intensity-modulated radiotherapy (IMRT) and concurrent chemotherapy for anal and perianal cancer: The Princess Margaret Hospital experience. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S15 A46, 2010.

Hans K, Skliarenko J, **Craig T**, Le LW, **Cummings BJ**, **Brierley JD**, **Wong RK**, Krzyzanowska MK, Chen FX, **Kim JJ**. IMRT and concurrent chemotherapy for anal and perianal cancer: The Princess Margaret Hospital experience. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S306 A2228, 2010.

Hawkins M, **Coolens C**, Ockwell C, Burke K, Tait DM. Highly conformal partial liver irradiation for chemorefractory unresectable colorectal liver metastases. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S327-S328, 2010.

**Heaton R**, Norrlinger B, Smale J, **Islam M**. Clinical experience with an EPID-based quality assurance system for linear accelerators. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. *Med Phys* 37(6): 3250, 2010.

**Hope AJ**, Coate LE, Massey C, Sacher A, Barrett K, Keshavjee S, Darling G, Leighl NB, **Bezjak A**, Shepherd FA. Outcomes of bimodality and trimodality therapy in patients with stage III non-small cell lung cancer (NSCLC). American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S505, 2010.

Huang F, Chan P, Yan J, Paterson J, **Levin W**, **Manchul L**, **Cho YB**, **Milosevic M**, **Fyles A**. Intensity-modulated radiotherapy as an alternative to brachytherapy boost for gynecological cancers. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S51, A156, 2010.

Huang F, Chan P, Yan J, Patterson J, **Levin W**, **Manchul L**, **Cho Y**, **Milosevic M**, **Fyles A**. The intensity modulated radiotherapy alternative: A boost for gynecological cancers not suited to brachytherapy. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S405, 2010.

**Huang SH**, Goldstein D, Weinreb I, Perez-Ordóñez B, Fung S, Irish J, **Waldron J**, **Kim J**, **Cummings B**, **O'Sullivan B**. Pattern of failure and histopathological features in patients with positive postradiation planned neck dissection. Third International Conference on Innovative Approaches in Head & Neck Oncology, Barcelona, Spain. *Radiother Oncol* 98(Suppl 1): S31, 2011.

**Huang SH**, Goldstein D, Weinreb I, Perez-Ordóñez B, Fung S, Irish J, **Waldron J**, **Kim J**, **Cummings B**, **O'Sullivan B**. Positive postradiotherapy planned neck dissection is strongly associated with increased distant metastasis rather than regional relapse. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S454-455, 2010.

**Huang SH**, **O'Sullivan B**, **Waldron J**, **Bayley A**, **Kim J**, **Cummings B**, **Dawson LA**, **Hope A**, **Cho J**, Lockwood G, Witterick I, Siu L, **Ringash J**. Patterns of care in elderly head and neck cancer radiation oncology patients: a single centre cohort study. Second International Conference on Innovative

Approaches in Head & Neck Oncology, Barcelona, Spain. *Int J Radiat Oncol Biol Phys* 79(1): 46-51 2011.

**Huang SH**, Perez-Ordóñez B, **Liu FF**, **Waldron J**, Irish J, Siu L, Kim J, Weinreb I, Gullane P, **O'Sullivan B**. Pattern of distant metastases for HPV-related oropharyngeal cancer treated with radiotherapy. Groupe Européen de Curiethérapie and the European Society for Therapeutic Radiology and Oncology (GEC-ESTRO) International. Oncology Forum (EIOF) 11th Anniversary Biennial, London, United Kingdom. *Radiother Oncol* 99(Suppl 1): S330 P851, 2011.

Hunter SF, Al-Mayah A, **Moseley J**, **Bezjak A**, **Brock KK**. Effect of breathing motion on SBRT dose accumulation within the human thorax. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S670-671, 2010.

Hyde D, Lochray F, **Sahgal A**. Stereotactic body radiation therapy of the spine using the Elekta synergy, hexapod and BodyFIX systems. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S18 A53, 2010.

Ishkanian A, **Laperrière N**, Xu W, **Millar BA**, **Ménard C**, **Payne D**, **Sahgal A**. Upfront observation versus radiation for adult pilocytic astrocytoma: the Princess Margaret Hospital experience. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S33 A100, 2010.

**Islam M**, Norrlinger B, **Heaton R**, Wilson G, Wang Y, **Jaffray D**. Improving patient safety through a simple independent on-line beam monitoring system. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. *Med Phys* 37(6): 3089, 2010.

**Islam MK**, Norrlinger B, **Jaffray D**, Wilson G, Wang Y, **Heaton R**. Initial experience with a novel on-line beam monitoring system. Groupe Européen de Curiethérapie and the European Society for Therapeutic Radiology and Oncology (GEC-ESTRO) International. Oncology Forum (EIOF) 11th Anniversary Biennial, London, United Kingdom. *Radiother Oncol* 99(Suppl 1): S154 388, 2011.

Iupati D, **Haider M**, **Lee J**, **Brock K**, Abed J, Publicover J, Beiki-Ardakani A, **Chung P**, **Bayley A**, **Catton C**, **Milosevic M**, **Bristow R**, **Morton G**, **Warde P**, **Ménard C**. Prostate biopsy improves GTV delineation accuracy in MRI-guided and tumor-targeted salvage HDR brachytherapy. American Brachytherapy Society (ABS), 32nd Annual Meeting, San Diego, USA. *Brachytherapy* 10(Suppl 1): S50 PD24, 2011.

**Jaffray DA**, **Sharpe MB**, Rink A, **Letourneau D**. Novel approaches to improve the combined geometric and dosimetric performance of existing IG-IMRT systems. IC3DDose: The 6th International Conference on 3D Radiation Dosimetry, Hilton Head Island, USA. *J Phys Conf Ser* 250 012027, 2010.

Jethava V, **Vesprini D**, **Loblaw DA**, Mamedov A, Nam R, Klotz L. A review of radical prostatectomy outcomes in active surveillance patients -- the Sunnybrook experience. American Society of Clinical Oncology Genitourinary Cancers (ASCO-GU) Symposium, Orlando, USA. *J Clin Oncol* 29 (Suppl 7): A104, 2011.

**Jon F**, Zeng L, Culleton S, Zhang L, **Holden L**, **Tsao M**, **Barnes E**, **Sahgal A**, **Danjoux C**, **Chow E**. The Edmonton symptom assessment scale (ESAS) as a prognostic indicator for impending death in

advanced cancer patients referred for palliative radiotherapy. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S68 A144, 2010.

Jones JM, Fletcher K, Walton T, Shands ME, Zahlis E, Cheng T, Secord S, **Catton P**, Rodin G, Lewis FM. Helping her heal group program: Pilot study of an educational group intervention for male spouses of women with breast cancer. Canadian Association of Psychosocial Oncology (CAPO) Annual Meeting, Toronto. Conference Proceedings T124, 2011.

**Keller H**, Lakshman, **Vines D**, Dunne M, **Bristow R**. Functional relationships between imaging and biological markers for the purpose of dose painting using the example of FLT-PET and the Ki-67 labeling index. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. *Med Phys* 37(6): 3090, 2010.

**Keller H**, **Vines D**, Lakshman M, Dunne M, **Lindsay P**, Green D, Clarkson R, **Bristow RG**. Characterization of FLT-PET Response to high- and Low-Dose Radiation of a Lung Cancer Xenograft in Mice. Molecular Imaging in Radiation Oncology (MIRO) Conference, European Society for Therapeutic Radiology and Oncology (ESTRO), Brussels, Belgium, 2010.

Kestin LL, Grills IS, Guckenberger M, Belderbos J, **Hope AJ**, Werner-Wasik M, Sonke J, **Bissonnette J**, Xiao Y, Yan D. Substantial dose-response relationship with clinical outcome for lung stereotactic body radiotherapy (SBRT) delivered via online image guidance. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S14 A30, 2010.

Khan L, **Holden L**, Zhang L, Culleton S, Zeng L, **Jon F**, Wong K, **Danjoux C**, **Tsao M**, **Sahgal A**, **Barnes E**, **Chow E**. Prevalence of sleep disturbance in patients with bone metastases attending an outpatient radiotherapy clinic. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S581 A2845, 2010.

Kitamura C, Zurawel-Balaura L, Cheung A, **Bezjak A**, **Levin W**, **McLean M**, Garraway C, **Wong R**. Evaluating the feasibility of telemedicine for new patient consultations in palliative radiotherapy. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S61 A189, 2010.

Klotz L, O'Callaghan J, Ding K, Dearnaley DP, Higano CS, Horwitz EM, Malone S, Goldenberg SL, **Gospodarowicz MK**, Crook JM. A phase III randomized trial comparing intermittent versus continuous androgen suppression for patients with PSA progression after radical therapy: NCIC CTG PR.7/SWOG JPR.7/CTSUS JPR.7/UK Intercontinental Trial CRUKE/01/013. American Society of Clinical Oncology Genitourinary Cancers (ASCO-GU) Symposium, Orlando, USA. *J Clin Oncol* 29(Suppl 7): A3, 2011.

Klotz L, Venier N, Colquhoun A, Sasaki H, **Loblaw DA**, Fleshner N, Venkateswaran V. Capsaicin, a novel radiosensitizer, acts via a TRPV6 mediated phenomenon. American Society of Clinical Oncology Genitourinary Cancers (ASCO-GU) Symposium, Orlando, USA. *J Clin Oncol* 29(Suppl 7): A23, 2011.

Ko CJ, Ning H, Campheusen K, Smith S, McNally D, Choyke P, Lita E, Coleman N, **Ménard C**, Kaushal A. Phase II trial of combined high-dose-rate brachytherapy and external beam radiotherapy for Adenocarcinoma of the prostate: Long-term follow-up of trial NCI 02-C-0207. American Society of

Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S344, 2010.

Kong I, **Paszat L**, Saskin R, Taylor C, Nofech-Moses S, Hanna W, Quan ML, **Rakovitch E**. Outcomes of young women with ductal carcinoma in situ treated with breast-conserving surgery and radiotherapy: A population-based analysis. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S99 A212, 2010.

Landry G, Reniers B, **Pignol JP**, Beaulieu L, Verhaegen F. Dose to medium and water in low energy brachytherapy. Groupe Européen de Curiethérapie and the European Society for Therapeutic Radiology and Oncology (GEC-ESTRO) International. Oncology Forum (EIOF) 11th Anniversary Biennial, London, United Kingdom. *Radiother Oncol* 99(Suppl 1): S41 108, 2011.

**Laperriere N**, Ménard C, Millar BA, Sahgal A, Payne D, Mason W. Prognostic factors and outcomes for elderly patients with glioblastoma multiforme. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S34 A102, 2010.

**Laperriere N**, Perry J, Macdonald D, Mason W, Easaw J, Del Maestro R, Kucharczyk W, Hussey D, Greaves K, Moore S, Pouliot JF. Unidimensional versus Volumetric Assessment in glioma patients treated with temozolomide (TMZ): Rescue trial results. Society for Neuro-Oncology (SNO) 15th Annual Scientific Meeting, Montreal. *Neurooncology* 12(Suppl 4): iv60, 2010.

Lau M, Pope K, Potter A, McCusker J, **Dinniwell R**, **Cho J**, McLean M, Harnett N, Wong R, Bezjak A. Assessing conformity between the clinical specialist radiation therapist (CSRT) and radiation oncologists for target volume delineation and field placement in palliative patients. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S63 A194, 2010.

Lee G, **Fyles A**, **Cho J**, Easson A, Fenkell L, **Harnett N**, **Manchul L**, Tran P, Wang T, **Dinniwell R**. Inter-observer comparison of breast seroma delineation between clinical specialist radiation therapist and radiation onlogist. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S28, A84, 2010.

Lee G, **Fyles A**, Tran P, **Cho J**, Easson A, Fenkell L, **Manchul L**, Wang W, **Dinniwell R**. Magnetic resonance imaging assessment for clinical target volume delineation of the postoperative cavity in breast radiotherapy. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S211 A014, 2010.

**Lee J**, Caldwell C, Soliman H, **Ung Y**, **Alasti H**, **Vines D**, **Sun A**. Automatic segmentation of non-small cell lung carcinoma using 3D texture features in co-registered FDG PET/CT images. American Association of Physicists in Medicine (AAPM) and the Canadian Organization of Medical Physicists (COMP) Joint Meeting, Vancouver, *Med Phys* 38(6): 3786, 2011.

Lee N, Zhang Q, **Kim J**, Garden AS, Mechalakos J, Hu K, Le Q, Glisson BS, Chan AT, Pfister DG. Phase II Study of Concurrent and Adjuvant Chemotherapy with Intensity-Modulated Radiation Therapy (IMRT) or Three-Dimensional Conformal Radiotherapy (3D-CRT) + Bevacizumab (BV) For Locally or Regionally Advanced Nasopharyngeal Cancer (NPC)[RTOG 0615]: Preliminary Toxicity Report, ASTRO 52<sup>nd</sup> Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3), S103 #221, 2010.

**Letourneau D**, Marchand E, **Sharpe MB**, **Sahgal A**. Quality control comparison of intensity and volumetric modulated arc radiotherapy (IMRT and VMAT) for spine stereotactic body radiotherapy (SBRT): Impact of arc discretization. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S813 A3363, 2010.

Li A, Jezioranski J, Xie J, **McNiven A**, Di Tomasso A, Quintos J, **Levin W**, **Manchul L**, **Fyles A**, **Milosevic M**. Changes in tumour and uterine anatomy and dosimetry during MR-guided pulsed dose rate brachytherapy (PDR-BT) for cervix cancer. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S24 A72, 2010.

Li AW, Jezioranski J, Xie J, **McNiven A**, Di Tomasso A, Quintos J, **Levin W**, **Manchul L**, **Fyles A**, **Milosevic M**. Changes in tumour anatomy and dosimetry during MR-Guided pulsed dose rate brachytherapy for cervix cancer. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S397, 2010.

Li W, **Sahgal A**, Foote M, **Millar BA**, **Jaffray D**, **Letourneau D**. Impact of immobilization on intra-fraction motion for spine stereotactic body radiotherapy (SBRT) using cone-beam CT (CBCT). Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S32 A97, 2010.

Li W, **Sahgal A**, Foote M, **Millar B**, **Jaffray D**, **Letourneau D**. Impact of immobilization on intra-fraction motion for spine stereotactic body radiotherapy (SBRT) using cone-beam CT (CBCT). American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S775 A3276, 2010.

Li YQ 1, Lu FG, **Wong S**. Differential apoptosis radiosensitivity of neural progenitors after ionizing radiation. Society for Neuroscience (SfN), 40th Annual Meeting, San Diego. Neuroscience Meeting Planner: 470.9/FF2, 2010.

Li YQ, **Wong S**. Changes in neural stem cell and progenitor cell populations in mouse brain after ionizing radiation. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S23 A68, 2010.

**Lindsay P**, Dekker A, **Sharpe M**, Giuliani M, **Purdie T**, **Bezjak A**, **Hope A**. automated tools to facilitate lung cancer outcomes data-mining, American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S484 A2629, 2010.

Lipscombe L, Rochon P, Anderson G, Hadas F, Salkar S, **Paszat L**, **Rakovitch E**, Austin P. Risk of diabetes with tamoxifen therapy among older breast cancer survivors. American Diabetes Association 71st Scientific Sessions, San Diego, USA. Conference Proceedings: 0319-OR, 2011.

Locke JA, Zafarana G, Ishkanian AS, **Milosevic M**, Thoms J, Malloff CA, Lam WL, Pintilie M, van der Kwast T, **Bristow RG**. Allelic Loss of the Stem Cell Associated Transcription Factor Gene NKX3.1 in Pre-Treatment Biopsies is an Adverse Prognostic Factor in Intermediate-risk Prostate Cancer. Proceedings of the ASTRO 3B Research Forum: Benchtop to Bedside and Back, Atlanta, USA, A105, p 13, 2011.

Ma L, Hu W, **Sahgal A**, Larson DA. Effect and optimization of beam delivery sequence for consistent biological effective dose realization in stereotactic radiosurgery treatments. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. Med Phys 37(6): 3090 SU-DD-A2-06, 2010.

Ma L, **Sahgal A**, Hwang A, Hu W, Chuang C, Descovich M, Larson DA. A two-step optimization technique for planning multi-target treatments with robotic radiotherapy. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. Med Phys 37(6): 3304, SU-GG-T-510, 2010.

Masaki A, John BC, Feld R, **Tsao MS**, Leighl N, Johnston MR, Keshavjee S, de Perrot M. Long-term outcome after extra-pleural pneumonectomy for patients with malignant pleural mesothelioma: A 10-year single center experience. International Mesothelioma Interest Group (IMIG) International Conference, Kyoto, Japan. Conference Proceedings RD02-3:9, 2010.

Mason MD, **Warde PR**, Sydes MR, **Gospodarowicz MK**, Swanson GP, Kirkbride P, Kostashuk E, Hetherington J, Ding K, Parulekar W. Intergroup randomized phase 3 study of androgen deprivation therapy (ADT) + radiation therapy (RT) in locally advanced prostate cancer (CaP) (NCIC-CTG, SWOG, MRC-UK, and INT:T94-0110; NCT00002633). American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. Int J Radiat Oncol Biol Phys 78(3): S2 A3, 2010.

Mattonen M, Gillan C, Li W, **Milosevic M**. Communicating clinical information in IGRT practice to facilitate an individualized approach to online image matching guidelines in gynaecological sites. RTi3: Radiation Therapy Conference, University of Toronto Department of Radiation Oncology (UTDRO), Toronto. Conference Proceedings A10 P40, 2011.

McGrath D, Foltz W, **Brock KK**. Progressive change in biomechanical properties of ex vivo prostate with pathology fixation as measured by MR elastography at 7 Tesla, and correlation with changes in T1, T2, and ADC. International Society for Magnetic Resonance in Medicine (ISMRM) 19th Annual Meeting, Montreal. Proc Intl Soc Mag Reson Med 19, 2011.

McGrath D, Foltz W, Samavati N, **Lee J**, van der Kwast TH, Jewett M, **Ménard C**, **Brock KK**. Biomechanical property quantification of prostate cancer by quasi-static MR elastography at 7 Tesla of radical prostatectomy, and correlation with whole mount histology. International Society for Magnetic Resonance in Medicine (ISMRM) 19th Annual Meeting, Montreal. Proc Intl Soc Mag Reson Med 19, 2011.

**McNiven AL**, **Davidson MTM**, **Sharpe MB**, **Purdie TG**. Head and neck IMRT complexity characterization and prediction of deliverability using the modulation complexity score. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. Med Phys 37(7): 3897, 2010.

**McNiven AL**, **Davidson MTM**, **Sharpe MB**, **Purdie TG**. Predicting the deliverability of head and neck IMRT using the modulation complexity score. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. Int J Radiat Oncol Biol Phys 78(3): S751 A3221, 2010.

**Milosevic M, Bristow RG, Ménard C, Chung PW, Bayley A, McLean M, Toi A, Gospodarowicz MK, Catton C, Warde PR.** Prostate cancer hypoxia as a predictor of early biochemical and local failure after radiotherapy. American Society of Clinical Oncology (ASCO) Genito-Urinary Cancer Symposium, Orlando, USA. *J Clin Oncol* 29(Suppl 7): A20, 2011.

Mitera G, **Loblaw A, Sahgal A**, Danielson B. Canadian-led international development of a European organization for research and treatment of cancer quality of life module for malignant spinal cord compression: results of phase I. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S604 A2895, 2010.

Mohindra P, Maxymiw W, Lee L, **Huang SH, O'Sullivan B, Waldron J, Ringash J, Dawson LA, Cummings B, Kim J, Cho J**, Wood R, **Hope A**. Interaction of oral bisphosphonates and head-neck radiotherapy in causing radiation induced bone toxicity [RIBT]. European Society for Therapeutic Radiology and Oncology (ESTRO) ESTRO 29, Barcelona, Spain. *Radiother Oncol* 96(Suppl 1): S321, P932 2010.

Morgan SC, Walker-Dilks C, Goldman B, Eapen LJ, Winkquist EW, Chin JL, Swanson GP, Thompson IM, **Loblaw DA**. Does the benefit of adjuvant radiotherapy following radical prostatectomy for pathologic T3 or margin-positive prostate cancer extend to all pathologic subgroups? A meta-analysis of the randomized trials. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S29 A63, 2010.

**Morton GC, Loblaw DA**, Cheung H. High dose-rate brachytherapy as a single 15 Gy fraction combined with hypofractionated external beam radiotherapy for intermediate risk prostate cancer. American Society of Clinical Oncology (ASCO) Genito-Urinary Cancer Symposium, Orlando, USA. *J Clin Oncol* 29(Suppl 7): A66, 2011.

**Morton G, Loblaw DA, Chung H**, Deabreu A, Zhang L, **Cheung P, Danjoux C, Szumacher E**, Vigneault E, Springer C. Health-related quality of life following high dose-rate brachytherapy boost for prostate cancer: dose to urethra matters. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S3 A8, 2010.

**Morton GC, Loblaw DA, Chung HT**, Law N, Cisecki T, **Batchelar DL**, Korol R, Deabreu A, Sankrecha R. Should we deliver high dose-rate brachytherapy boost for prostate cancer as a single fraction? American Brachytherapy Society (ABS), 32nd Annual Meeting, San Diego, USA. *Brachytherapy* 10(Suppl 1): S29 OR33, 2011.

**Moseley DJ**, Zhang B, Barnett E, McCann C, Abbas A, Fenkell L, Yeung I. Volumetric Modulated Arc Therapy for Prostate Radiotherapy. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S828 A3397, 2010.

Nayebi N, Ruschin M, Li W, **Ménard C, Sahgal A, Jaffray D**. Evaluation of inter-fraction setup uncertainty of the cervical spine using a novel relocatable head frame intended for intra-cranial stereotactic radiotherapy. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. *Med Phys* 37(6): 3419, 2010.

Ng A, **Ménard C, Laperriere N**, Zadeh G, Ahmed S, Bahl G, Hodgson C. An examination of utilization of adjuvant and salvage radiosurgery for the treatment of brain metastasis. American Society of

Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S285, 2010.

Nguyen TN, **Moseley JL**, **Dawson LA**, **Brock KK**. Breathing motion and deformation of pancreatic cancer patients and its effect on planning dose. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. *Med Phys* 37(6): 3459, 2010.

Norrlinger B, **Heaton R**, Wilson G, **Islam M**. Performance monitoring of VMAT delivery. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. *Med Phys* 37(6): 3238, 2010.

**O'Sullivan B**, Dickie C, Griffin A, **Sharpe M**, Parent A, **Chung P**, **Catton C**, Wunder J, Ferguson P, Bell R. Phase II study to evaluate if selective targeting by preoperative intensity modulated radiation therapy can reduce wound complications in lower limb soft tissue sarcoma. European Society for Therapeutic Radiology and Oncology (ESTRO) Prediction, Recognition, Evaluation And Eradication Of Normal Tissue Effects Of Radiotherapy (PREVENT) Conference, Brussels, Belgium. *Radiother Oncol* 98(Suppl 2): S40 P94, 2011.

**O'Sullivan B**, **Huang SH**, Perez-Ordenez B, Liu F, Massey C, Weinreb I, Chen E, **Cummings B**, **Kim J**, **Waldron J**. Outcome of radiotherapy alone in HPV associated oropharyngeal cancer. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S62-63, 2010.

**O'Sullivan B**, **Huang SH**, Perez-Ordenez B, Massey C, Liu FF, Weinreb I, Chen E, **Cummings B**, **Kim J**, **Waldron J**. Excellent identical outcomes for radiation alone vs. chemoradiation in minimal smoking HPV(+) N0-N2c oropharynx cancer patients. European Society for Therapeutic Radiology and Oncology (ESTRO) Innovative Approaches in Head & Neck Oncology (ICHNO) 3rd International Conference, Barcelona, Spain. *Radiother Oncol* 98(Suppl 1): S9, 2011.

**Palmer C**, Kee N, Mak J, Perumalla C, Matthews S. Effectiveness of online education and learning support for medical radiation sciences students. 9th European Conference on e-Learning, Porto, Portugal. Conference Proceedings P47, 2010.

Papanicolau N, Dent R, **Spayne J**, Kolios M, Sofroni E, Iradji S, **Czarnota GJ**. Conventional frequency evaluation of tumor cell death response in locally advanced breast cancer patients to chemotherapy treatment administration. Acoustical Society of America (ASA) 2nd Pan-American / Iberian Meeting on Acoustics, Cancun, Mexico. Conference Proceedings: 3aBB14, 2010.

Patil NG, **Catton CN**, **O'Sullivan B**, **Dinniwell R**, Griffin A, Ferguson P, Gladdy R, McCready D, Blackstein M, Gupta A, Le LW, **Chung PW**. 15 years experience of management of malignant phyllodes tumour and breast sarcoma at Princess Margaret Hospital. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S67 A208, 2010.

Perry JR, O'Callaghan CJ, Ding K, Brandes AA, Phillips C, Menten J, Fay M, Nishikawa R, Winch C, **Laperriere N**. A phase III randomized controlled trial of short-course radiotherapy with or without concomitant and adjuvant temozolomide in elderly patients with glioblastoma multiforme. The European Association of NeuroOncology, 9th Meeting, Maastricht, The Netherlands. *Neuro Oncol* 12(Suppl 3): iii38 P.072, 2010.



**Pignol JP**, Zeppieri J, **Rakovitch E**, Chartier C, Hanna W. Accuracy and completeness of pathology reporting – impact on partial breast irradiation eligibility. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S32 A95, 2010.

Pituskin E, Fairchild A, **Chow E**, Wu J, Presutti R, Gaudreault M, DeAngelis C, North S, Kerba M, Venner P. Concurrent tyrosine kinase inhibitors and palliative radiotherapy in the treatment of metastatic renal cell carcinoma: A retrospective database review. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S586 A2857, 2010.

Pope K, Holwell M, Fitzpatrick D, Potter A, **Bezjak A**, **McLean M**, **Levin W**, Lau M, Wang L, Zurawel-Balaura L, **Wong R**. Does 3D versus 2D planning techniques make a difference in palliative radiotherapy? Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S63 A196, 2010.

Pope KL, Holwell M, Lau M, Wang L, **Bezjak A**, **McLean M**, **Levin W**, Zurawel-Balaura L, **Wong R**. Evaluating the dosimetric impact of 3D vs 2D planning techniques in palliative radiotherapy. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S579-580, 2010.

Publicover J, Gallop D, Elliott C, Abed J, **Simeonov A**, O'Leary G, Iupati D, Krieger A, **Ménard C**. A Navigation strategy for patient-specific needle deflection in transperineal MRI-Guided Prostate Interventions. American Brachytherapy Society (ABS), 32nd Annual Meeting, San Diego, USA. *Brachytherapy* 10(Suppl 1): S65 PD62, 2011.

**Purdie T**, **Dinniwell R**, **Sharpe M**. Clinical validation of an automated tangential breast intensity modulated radiation therapy treatment planning process. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S742 A3202, 2010.

Quon H, **Cheung P**, Cesta A, **Holden L**, Tang C, **Pang G**, **Morton G**, Basran P, Tirona R, Mamedov A, Deabreu A, **Loblaw A**. Intrafraction motion during extreme hypofractionated intensity-modulated radiotherapy for prostate cancer. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S47 A142, 2010.

Quon H, **Cheung P**, Cesta A, **Holden L**, Tang C, **Pang G**, **Morton G**, Basran P, Tirona R, Mamedov A, Deabreu A, **Loblaw A**. Prospective study of extreme hypofractionated radiotherapy (35 Gy in five fractions) for low-risk prostate cancer: Toxicity results. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S46 A139, 2010.

Quon HC, **Cheung P**, **Loblaw DA**, **Morton G**, **Szumacher E**, **Danjoux C**, Choo R, Thomas G, Kiss A, Deabreu A. Quality of life after pelvic radiotherapy with hypofractionated IMRT boost and long term hormonal therapy for locally advanced prostate cancer. American Society of Clinical Oncology (ASCO) Genito-Urinary Cancer Symposium, Orlando, USA. *J Clin Oncol* 29(Suppl 7): A75, 2011.

Quon HC, **Loblaw DA**, **Cheung P**, Cesta A, **Holden L**, Tang CI, **Pang G**, **Morton G**, Mamedov A, Deabreu A. Predicting intrafraction displacement of the prostate during a five-fraction radiotherapy regimen: Implications for stereotactic body radiotherapy. American Society of Clinical Oncology (ASCO) Genito-Urinary Cancer Symposium, Orlando, USA. *J Clin Oncol* 29(Suppl 7): A90, 2011.

Quon H, **Loblaw A**, **Morton G**, **Sixel K**, **Pang G**, Basran P, **Szumacher E**, **Danjoux C**, Choo R, Thomas G, Kiss A, Deabreu A, **Cheung P**. Acute and late toxicity of pelvic radiotherapy and concomitant hypofractionated intensity modulated radiotherapy boost combined with hormonal therapy for high-risk prostate cancer. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S47 A143, 2010.

Quon H, **Loblaw DA**, **Morton G**, **Szumacher E**, Danjoux C, Choo R, Thomas G, Kiss A, Deabreu A, **Cheung P**. Patient reported outcomes after hypofractionated radiotherapy and long-term androgen deprivation for high-risk prostate cancer. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S345 A2317, 2010.

Ramaekers C, van den Beucken T, **Bristow RG**, **Wouters BG**. RNF independent Lys63 Poly-Ubiquitylation Plays a Role in Maintaining Genomic Stability. Maintenance of Genome Conference 2010, ABCAM, Antigua, 2010.

Rink A, Croteau A, **Simeonov A**, **Ménard C**, **Jaffray D**. Preliminary investigations of the mr-compatible real-time optical fiber dosimetry probe for MR-guided brachytherapy procedures. American Brachytherapy Society (ABS), 32nd Annual Meeting, San Diego, USA. *Brachytherapy* 10(Suppl 1): S68 PD69, 2011.

Roeloffzen E, Battermann J, Roermund Van J, **Saibishkumar EP**. Monninkhof E, Vulpen Van M. Pretreatment nomogram to predict the risk of acute urinary retention after i-125 prostate brachytherapy. European Society for Therapeutic Radiology and Oncology (ESTRO) ESTRO 29, Barcelona, Spain. *Radiother Oncol* 96(Suppl 1): S88 P237, 2010.

**Rosewall T**, **Bayley AJ**, Xie J, Baxi S, **Catton CN**, **Chung P**, Currie G, Wheat J, **Milosevic M**. The effect of delineation method and interobserver variability on “bladder” cumulative dose-volume histograms (DVH). European Society for Therapeutic Radiology and Oncology (ESTRO) ESTRO 29, Barcelona, Spain. *Radiother Oncol* 96(Suppl 1): S590 P1726, 2010.

**Rosewall T**, **Bayley AJ**, Xie J, Baxi S, **Catton CN**, **Chung P**, Currie G, Wheat J, **Milosevic M**. The effect of delineation method and interobserver variability on “bladder” cumulative dose-volume histograms (DVH). RTi3: Radiation Therapy Conference, University of Toronto Department of Radiation Oncology (UTDRO), Toronto. Conference Proceedings A41 P68, 2011.

**Rosewall T**, Kong V, Li W, **Purdie T**, **Jaffray DA**. Determining planned offset limits of agreement for kV conebeam CT and optically guided 3D ultrasound using an unambiguous phantom. European Society for Therapeutic Radiology and Oncology (ESTRO) ESTRO 29, Barcelona, Spain. *Radiother Oncol* 96(Suppl 1): S577 P1685, 2010.

Ruschin M, Nayeibi N, Li W, **Cho Y**, **Sahgal A**, **Ménard C**, **Jaffray D**. Assessment of cervical spine positioning and immobilization accuracy using a novel relocatable head frame intended for intra-cranial stereotactic radiotherapy. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: 138-139, 2010.

**Sahgal A**, Fernandes B, Weisbrod D, Yucel Y, Follwell M, **Payne D**, McGowan H, Simpson R, Xu W, Heydarian M, **Laperriere N**. Neovascular glaucoma following stereotactic radiotherapy for

juxtapapillary choroidal melanoma: histopathological-dosimetric findings. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S32 A96, 2010.

**Sahgal A**, Ma L, Weinberg V, Gibbs I, Chao S, Chang U-K, Werner-wasik M, Angelov L, Chang E. Re-irradiation spinal cord tolerance. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S34 A103, 2010.

**Sahgal A**, Ma L, Weinberg V, Gibbs I, Chao S, Chang U, Werner-wasik M, Fowler J, Wong S, Larson D. Human spinal cord re-irradiation guidelines for stereotactic body radiotherapy. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S285 A2182, 2010.

**Saibishkumar EP**, Borg J, **Ménard C**, **McLean M**. Is there any advantage in using stranded seeds over loose seeds in permanent radioactive seed implant for low risk prostate cancer. European Society for Therapeutic Radiology and Oncology (ESTRO) ESTRO 29, Barcelona, Spain. *Radiother Oncol* 96(Suppl 1): S218 P584, 2010.

**Saibishkumar EP**, Lukka H, Orest O, Smith C. Feasibility of bone marrow sparing using intensity modulated radiotherapy in a patient with intermediate risk prostate cancer and compromised platelet count due to chronic idiopathic thrombocytopenic purpura. European Society for Therapeutic Radiology and Oncology (ESTRO) ESTRO 29, Barcelona, Spain. *Radiother Oncol* 96(Suppl 1): S500 P1467, 2010.

Sankhala KK, Tolcher AW, Mita MM, Gordon MS, Rosen LS, Papadopoulos KP, Patnaik A, Drengler RL, Mita AC, Sarantopoulos J, **Bristow RG**, Fine G, Choy GS, Azab M. Amuvatinib (MP-470), an oral dual inhibitor of mutant kinases and DNA repair: Final results from a 100-patient, 5-arm phase 1b trial in combination with 5 standard of care (SOC) anticancer regimens. 2011 ASCO Annual Meeting, Chicago, USA, A78000, 2011.

Shorthouse AA, Kim JH, **Brierley J**, **Ringash J**, Knox JJ, Liu G, Darling G, **Cummings BJ**, Xu W, **Wong RKS**. Assessing the relationship between radiotherapy dosimetric characteristics and post-operative pulmonary complications in trimodality esophageal cancer therapy. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S296 A2208, 2010.

Sivayogan T, **Chow JCL**. Graphical user interface for Monte Carlo phase space field trimming. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. *Med Phys* 37(6): 3287, 2010.

Sonke J, Gasparini A, Clarkson R, **Lindsay P**. Image registration and localization accuracy of a micro IGRT system, American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S760 A3242, 2010.

**Stanescu T**, Wachowicz K, **Jaffray DJ**. Quantification of MR image susceptibility distortions for IGRT. Groupe Européen de Curiethérapie and the European Society for Therapeutic Radiology and Oncology (GEC-ESTRO) International. Oncology Forum (EIOF) 11th Anniversary Biennial, London, United Kingdom. *Radiother Oncol* 99(Suppl 1): S195 P480, 2011.

Swaminath A, Knox JJ, **Brierley JD, Dinniwell R, Wong R, Kassam Z, Kim JJ, Brock KK, Dawson LA**. Changes in liver volume during radiotherapy delivered concurrently with sorafenib. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S24 A51, 2010.

Taremi M, **Hope A**, Dahele M, Pearson S, Fung S, **Purdie T, Brade A, Cho J, Sun A, Bissonnette JP, Bezjak A**. Four year outcomes of patients with stage I lung cancer treated with stereotactic body radiation therapy (SBRT). Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S18, A55, 2010.

Taremi MM, **Hope AJ, Lindsay PE, Purdie T**, Fung S, **Jaffray DA, Dawson LA, Bezjak A**. Radiotherapy induced bone injury (RIBI) as a late side effect in patients treated with stereotactic lung radiotherapy. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3): S522 A2711, 2010.

Thoms JW, Christensen E, Anborgh P, Fleshner N, Chadwick K, Pintilie M, **Catton C**, Chambers A, **Bristow RG**. Osteopontin (OPN) in Prostate Cancer: Relationship to Risk Category and Radiotherapy Response. Proceedings of the ASTRO 3B Research Forum: Benchtop to Bedside and Back, Atlanta, USA, A130, p 22, 2011.

**Tsang RW**, Bernard M, Le LW, **Hodgson DC, Sun A, Wells W**, Crump M, **Gospodarowicz MK**. Limited stage mantle cell lymphoma: Treatment outcomes at the Princess Margaret Hospital. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. *Int J Radiat Oncol Biol Phys* 78(3) S1: S545, 2010.

**Tsang RW**, Goda JS, Massey C, Kuruvilla J, **Gospodarowicz MK, Wells W, Hodgson DC, Sun A**, Crump MC, Keating A. What can be expected from salvage radiation therapy when an autologous stem cell transplant (ASCT) fails to control Hodgkin lymphoma? Eighth International Symposium on Hodgkin Lymphoma, Cologne, Germany. *Haematologica* 95(Suppl 4): S27 P092, 2010.

Turner A, Au P, **Pang G**. Optimization of kV-CBCT scan protocols to reduce daily imaging dose for head and neck patients. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S5 A14, 2010.

Wagner SJ, Kilmartian C, **Palmer C**, Chapman W, Hardie C, Cockburn L, Cameron A, Mainwaring L, Switzer-McIntyre S, Kanofsky S, Litvack A, Tassone M. How an interfaculty curriculum committee supports an interprofessional education curriculum. Ontario Interprofessional Health Collaborative, IPE Ontario 2011, Toronto. Conference Proceedings: A48, 2011.

**Warde P**, Mason M, Sydes M, Swanson G, **Gospodarowicz M**, Kirkbride P, Kostashuk E, Hetherington J, Hiltz A, King K, Parulekar W. Intergroup randomized phase III study of androgen deprivation therapy (ADT) radiation therapy (RT in locally advanced prostate cancer (CaP) (NCIC-CTG, SWOG, MRC-UK, INT; 94-0110, NCT 00002633). Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Vancouver. *Radiother Oncol* 96(Suppl 2): S16, A48, 2010.

**Wiljer D**, Urowitz S. Patients without borders: Some reflections on empowerment through access to information. International Association for Development of the Information Society (IADIS) International Conference on e-Society, Avila, Spain Conference Proceedings ISBN 978-972-8939-46-5, 2011.

**Wong J**, Mendelsohn D, **Nyhof-Young J**, Bernstein M. Supportive care for patients undergoing craniotomy for benign brain tumors: a qualitative study. American Academy of Neurology (AAN) 63rd Annual Meeting, Honolulu, USA. Conference Proceedings P03.254, 2011.

**Yeboah C**, Karotki A. Quantification and reduction of peripheral dose from electron applicator leakage. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. Med Phys 37(6): 3207, 2010.

Yu H, and **Mah K**. Towards MR-Only Simulation: A QA Phantom for Coalescing Consecutive MR Scans of the Head and Neck. Med Phys 38(6), 3465, 2011.

Zadeh G, Burrell K, **Lindsay P**, Jelveh S, **Hill R**. Vascular response to ionizing radiation in normal brain and high-grade gliomas. American Society of Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, San Diego, USA. Int J Radiat Oncol Biol Phys 78(3): S161 A1041, 2010.

Zeng GG, Do A, Lawrence K, Wang Y, **McGowan T**, **MacPherson M**. Prostate localization in post-prostatectomy image-guided radiation therapy. American Association of Physicists in Medicine (AAPM) 52nd Annual Meeting, Philadelphia, USA. Med Phys 37(6): 3161, 2010.

Zeng L, **Di Prospero L**, DasGupta T, Vachon MLS, **Holden L**, **Jon F**, **Chow E**. Comparison of occupational stress in rapid response radiotherapy program's interprofessional team, the radiation therapists and the nurses at the Odette Cancer Centre. RTi3: Radiation Therapy Conference, University of Toronto Department of Radiation Oncology (UTDRO), Toronto. Conference Proceedings A9 P39, 2

## **Presentations**

### **Barker, Ruth**

Fostering scholarship in medical education in cancer care through inter-institutional collaboration; challenges and opportunities. 8<sup>th</sup> Annual Radiation Therapy Conference, Toronto. 2011

Making Your Research Idea a Reality. 6<sup>th</sup> Annual Odette Cancer Centre Surgical Oncology Day, Toronto. 2011

The development of a screening tool to facilitate the provision of quality patient focused supportive care within a radiation therapy department. 8<sup>th</sup> Annual Radiation Therapy Conference, Toronto. 2011

Tips and Tools for New Managers: An Interactive Workshop for Leaders in Radiation Therapy. American Society of Radiologic Technologists, Radiation Therapy Conference. San Diego, USA. 2011

### **Beachey, David**

Introducing IGRT: A Site-Based Approach, Image Guided Radiation Therapy in Lung Cancer. Image-Guided Radiation Therapy Education Course, Toronto. 2010

Outcome of Early Stage Non-Small Cell Lung Cancer Treated with Stereotactic Body Radiotherapy. American Society of Clinical Oncology (ASCO) Annual Meeting, Chicago, USA. 2010

Radiation Dose Escalation in Small Cell Lung Cancer. 5<sup>th</sup> Annual Ontario Thoracic Oncology Conference (keynote speaker), Niagara-on-the-Lake. 2010

Stereotactic Body Radiotherapy – The Hype and The Promise. University of Toronto CE Oncology Rounds (tele-rounds), Toronto. 2010

Application of IGRT to Palliative Lung RT. The Lung Image-Guided Radiation Therapy Education Course, Toronto. 2011

Implementing Lung Stereotactic Body Radiotherapy Program. The Fourth Annual International Symposium on SBRT and Stereotactic Radiosurgery, Orlando, USA. 2011

Issues in Radical Radiation Therapy in Lung Cancer. Sudbury Image-Modulated Radiation Therapy Coaching Course, Sudbury Regional Hospital, Sudbury. 2011

Issues in Radical Radiotherapy for Lung Cancer. The Lung Image-Guided Radiation Therapy Education Course, Toronto. 2011

Lung Cancer 101 – Setting the Stage. The Lung Image-Guided Radiation Therapy Education Course, Toronto. 2011

The PMH Lung SBRT Program – Progress and Challenges. Radiation Medicine Program Rounds, Toronto. 2011

### **Bissonnette, JP**

La Radiothérapie Guidée par l'image pour le Cancer du Poumon. Hôpital Maisonneuve-

Rosemont, Montréal. 2010

Radiotherapy Quality and Safety in Canada: An Inter-Disciplinary, Pan-Canadian Collaboration. CARO Workshop, Vancouver. 2010

Retrospective analysis of incidents & a classification scheme. COMP Winter School, Banff. 2010

Collaborating for Quality. RTi3 Workshop, Toronto. 2011

Incident Classification and Reporting. COMP Winter School, Mont Tremblant. 2011.  
Quality Assurance for Image-Guided Radiation Therapy. QA and Dosimetry Symposium, Orlando, USA. 2011

Quality Assurance for kilovoltage Cone-beam CT Image-guidance. Southeast Chapter of the American Association of Physicists in Medicine, Myrtle Beach, USA. 2011

**Brade, Anthony**

A phase II study of concurrent pemetrexed/cisplatin/radiation (RT) for unresectable stage IIIA/b non-small cell lung cancer (NSCLC). American Society of Clinical Oncology (ASCO) Annual Meeting, Chicago, USA. 2010

Combining VEGF Axis Inhibition with Radiotherapy. Radiation Oncology Research Rounds, Odette Cancer Centre, Sunnybrook Hospital, Toronto. 2010

Nimotuzumab: Current Development and Future Directions; Head & Neck Cancer NSCLC and Glioma. Clinical Trial Speaking Engagement, New Delhi, India. 2010

Optimal Approach to Neoadjuvant, Adjuvant and Combined Modality Treatments in Non-metastatic NSCLC. East Asian Thoracic Cancer Forum, Seoul, South Korea. 2010.

YMB1000-010 Phase 1 Results. Clinical Trials Speaking Engagement, Vancouver. 2010

Preliminary results: a phase I study of Sorafenib and palliative radiation in patients with malignancy in the thorax, abdomen or pelvis. 3<sup>rd</sup> Symposium Novel Targeting drugs and radiotherapy (NTDR), Toulouse, France. 2010

**Bradley, Renate**

Move over Avatar, Here comes VERT, presentation at the VERTICAL booth, 34<sup>th</sup> American Society Radiologic Technologist (ASRT) Conference, San Diego, USA. 2010

**Breen, Stephen**

Applying Quality Tools in Radiotherapy. Hamilton Seminar Series, Juravinski Cancer Centre, Hamilton. 2010

Managing Change in Head and Neck IMRT. IMRT Insights, Toronto. 2010

PET in Radiotherapy Treatment Planning. Radiological Society of North America, Chicago, USA. 2010

Applying Quality Tools in Radiation Medicine. Canadian Organization of Medical Physicists (COMP) Winter School on Quality and Safety in Radiation Oncology, Mount Tremblant. 2011

**Brierley, James**

Cancer Staging 101, Canadian Partnership Against Cancer. 2010

New UICC Staging System for Cancer (TNM-7) and Japanese Staging System: Problems and Future Perspectives in Major Cancers. 69<sup>th</sup> annual meeting of the Japanese Cancer Association, Osaka, Japan. 2010

Cancer Staging – It's importance beyond the bedside. Department of Radiation oncology, Seattle Washington, USA. 2010

Colorectal Cancer Management – Adjuvant Radiotherapy, Canadian Surgical Forum, Quebec. 2010

IMRT in Anal Cancer. IMRT Insights: Transforming Practice Through Collaboration, Toronto. 2010

Cancer Stage: How are we using Stage Data In Ontario? Does TNM have a future? Kingston Regional Cancer Centre; Grand Rounds Kingston. 2011

Cancer Staging: TNM and Collaborative Stage Joint Canadian Partnership against Cancer and Canadian association of Pathologists, WebEx Education Session, Toronto. 2011

Non-Surgical Management of Thyroid Carcinoma. Head and Neck Imaging for ENT Surgeons and Radiation Oncologists. Ontario Association of Radiologist, Toronto. 2011

**Bristow, Robert**

High Risk PCA – Radiation or Surgery? 2<sup>nd</sup> Annual PMH Uro-Oncology Dialogue Conference, Westin Collingwood. 2010

Genomics, DNA Repair and Prostate Cancer, Myriad Genetics Scientific Advisory Board Meeting, Salt Lake City, USA. 2010

View of the Radiation Oncologist in Prostate Cancer. Swiss Academy of Multidisciplinary Oncology (SAMO) Interdisciplinary Workshop on Urogenital Tumors, Lucerne, Switzerland. 2010

Studies of DNA repair *in situ* as biomarkers of radio- and chemo response. 2010 Ontario Cancer Institute Retreat, Deerhurst Resort. 2010

Predicting radiotherapy outcome using somatic genetics in prostate cancer. Acta Oncologica 2010 Symposium-BiGART2010, Aarhus, Denmark. 2010

Molecular Determinants of Prostate Cancer Radioresponse. UK Prostate Cancer Research Foundation Forum, North Yorkshire, England. 2010

The ICGC Prostate Project. Australian-Canadian, Prostate Cancer Research Alliance (AC-PCRA), Brisbane, Australia. 2010



Thoughts on IHC and Genetic Validation of MRI-based Prostate Imaging. Australian-Canadian, Prostate Cancer Research Alliance (AC-PCRA), Brisbane, Australia. 2010

The Biology of Prostate Hypoxia and Approaches to Targeting. Australian-Canadian, Prostate Cancer Research Alliance (AC-PCRA), Brisbane, Australia. 2010

Targeting DNA Repair as a New Therapy for Prostate Cancer. Prostate Cancer Foundation of Australia (PCFA), Brisbane, Australia. 2010

Array CGH & Copy Number Alteration: Novel Prognostic Determinants of Prostate Cancer Radiotherapy Outcome. National Cancer Institute (NCI) Radiation Resistance in Cancer Therapy meeting, Bethesda, USA. 2010

Hypoxia and PARP Inhibitors: Taking Advantage of Contextual Lethality. European Society for Therapeutic Radiology and Oncology (ESTRO) 29<sup>th</sup> Annual Meeting, Barcelona, Spain. 2010

The Tumour Microenvironment Exploiting Pathways for Targeted Therapies. Radiation Research Meeting, Maui, USA. 2010

Out of the Box Thinking in Radiobiology for Hypoxia and DNA Repair. Medical Biophysics (MBP) Retreat, Lake Couchiching. 2010

Contextual Cell Lethality and Hypoxic Cancer Cell Kill. American Society for Radiation Oncology (ASTRO) 52<sup>nd</sup> Annual Meeting, San Diego, USA. 2010

DNA repair gene modifications in prostate cancer and individualised therapy: A Canadian- ICGC prostate cancer project. Translational Cancer Genomics Symposium, Personal Genomes for Improved Cancer Care, Garvan Institute of Medical Research, Sydney, Australia. 2010

Status of ICGC Projects – Prostate Cancer – Adenocarcinoma. International Cancer Genome Consortium (ICGC) 4<sup>th</sup> Scientific Workshop, Couran Cove Island Resort, Australia. 2010

Genomic and Microenvironmental Predictors of Prostate Cancer Radioresponse. 22<sup>nd</sup> L H Gray International Conference, Realizing the potential of drug/radiation interactions in cancer treatment, Manchester, United Kingdom. 2011

The Genetics of Prostate Cancer Radiotherapy Response: Pre-Clinical and Clinical Studies. Blue Skies Forum, Downing College, Cambridge, United Kingdom. 2011

Contextual Synthetic Lethality: Studies of Hypoxia and DNA Repair. 3B ASTRO Translation Research Meeting, Georgia, USA. 2011

Contextual Synthetic Lethality: Studies of Hypoxia and DNA Repair and Prostate Cancer. Queen's University Cancer Research Institute, Kingston. 2011

Contextual Synthetic Lethality: DNA Repair and the Tumour Microenvironment. Vertex, Boston, USA. 2011

Personalized Prostate Cancer Medicine Based on Genetic Predictors of Radiotherapy Response. Southern Alberta Cancer Research Institute, University of Calgary, Calgary. 2011

Contextual Synthetic Lethality and the Tumour Microenvironment: Implications for PARP Inhibitor Development. DNA Damage Repair Symposium, Abbott Laboratories, Chicago, USA. 2011

**Brock, Kristy**

Deformable Registration in Prostate Radiotherapy, ESTRO 29 Annual Meeting, Barcelona, Spain. 2010

Improving Contouring and Segmentation, ASTRO Annual Meeting, San Diego, USA. 2010

Imaging Challenges for Radiation Oncology: Imaging for Adaptive Planning—What if the Target Changes? Deformable Registration, RSNA Annual Meeting, Chicago, USA. 2010

Implementation of Adaptive Radiation Therapy, ASTRO Annual Meeting, San Diego, USA. 2010

Optimizing MR Imaging for Treatment Planning, AAPM Annual Meeting, Philadelphia, USA. 2010

Adaptive Radiotherapy: Imaging, Dose Accumulation, and Ensuring it is Correct, BIRC Seminar Series, London. 2011

Deciding What to Target with IG-IMRT: The Role of Correlative Pathology, Brigham and Women's Hospital, Boston, USA. 2011

Deformable Image Registration in Image Guided Therapy, UCSF Radiation Oncology Update: Perspective on New Technologies, Clinical Findings, and Safety, San Francisco, USA. 2011

Image Registration and Dose Warping for Inter-Fraction Deformation. GEC-ESTRO Annual Meeting, London, UK. 2011

Motion Management SBRT, IGRT, IMRT, ASTRO State of the Art Techniques: IMRT, IGRT, SBRT, Las Vegas, USA. 2011

The Use of Biomechanics in Deformable Image Registration, New England AAPM Meeting, Boston, USA. 2011

**Carlone, Marco**

Lessons from the COMP Winter School: Arc Therapy as Accelerated IMRT: Principles, Practice and Implementation. Metropolitan Hotel, Toronto. 2011

**Cashell, Angela**

Encouraging reflection: Do professional development workshops increase the skill level and use of reflection in practice? RTi3, Toronto. 2011

**Catton, Charles**

Combined Management of Soft Tissue Sarcomas. Oncology Grand Rounds. Queen Elizabeth II Health Sciences Centre, Halifax. 2010

Pelvic IMRT for Prostate Cancer. Allan Blair Cancer Centre, Saskatchewan. 2010

Thoracic Sarcomas. Seminar for Thoracic surgery residents University of Toronto and McMaster University, Toronto. 2011

Adjuvant Radiotherapy. Why do trials conflict? 3<sup>rd</sup> PMH Uro-Oncology Symposium, Niagara-on-the-Lake. 2011

**Catton, Pamela**

Helping Her Heal Group Program: Pilot study of an educational group intervention for male spouses of women with breast cancer. Canadian Association of Psychosocial Oncology Annual Meeting, Toronto. 2011

The PMH Cancer Survivorship Program: Health, Wellness and the Cancer Journey, Halifax. 2011

**Cheung, Patrick**

Advances in Radiotherapy for Lung Cancer. Wellspring Discussion Series in conjunction with Lung Cancer Canada, Toronto. 2010

Stereotactic Body Radiotherapy. IMRT Insights: Transforming Practice through Collaboration (Target Insight IV), Toronto. 2010

Radiation Therapy for Prostate Cancer: The Latest and Greatest Approaches Prostate Cancer: The Latest Lifesaving Information Lecture Series. Sunnybrook Health Sciences Centre, Toronto. 2011

**Chow, Edward**

Radiation treatment of bone metastases---biased of evidence based. Ann Hosp Pall Care Conference, Toronto. 2010

Symptom clusters in patients with advanced cancer – a reanalysis comparing different statistical methods. MASCC/ISSO 23<sup>rd</sup> Inter Symp Supp Care Canc, Toronto. 2011

Update of the international consensus on palliative radiotherapy endpoints for bone metastases. Ann Hosp Pall Care Confer, Toronto. 2011

Update on the systematic review in palliative radiotherapy trials for bone metastases. MASCC/ISSO 23<sup>rd</sup> Inter Sympo Supp Care Canc, Toronto. 2011

Validation of a predictive model for survival in patients with advanced secondary analysis of RTOG 9714. Ann Hosp Pall Care Confer, Toronto. 2011

**Chow, James**

Monte Carlo simulation on low-energy electrons from gold nanoparticle in radiotherapy. High Performance Computing in Medical Science meeting, Montreal. 2011

Monte Carlo simulation on a gold nanoparticle irradiated by electron beams. International Workshop on Recent Advances in Monte Carlo Techniques for Radiation Therapy, Montreal. 2011

Radio media interview (AM1540 A1 Radio): The effects of radiation on people's health resulting from the latest nuclear incidents in Japan, conducted by Mary Yang, Director of news and public affairs at Princess Margaret Hospital, University Health Network, Toronto. 2011

Radio media interview (AM1540 A1 Radio): Radiation safety after the demineralized water leak at the Pickering nuclear plant, conducted by Mary Yang, Director of news and public affairs at Princess Margaret Hospital, University Health Network, Toronto. 2011

TV media interview (CP24): Health effects of radiation exposure from nuclear plant explosions in Japan, conducted by Sarah Tratt, Senior Producer and Reporter Jee-Yun Lee at Ryerson University Campus, Toronto. 2011

### **Chung, Caroline**

Biomarker investigation in intracranial murine glioma study of radiation and antiangiogenic therapy, Biennial Canadian Neuro-Oncology Meeting Oral Presentation, Niagara-on-the-lake. 2010

Intracranial Murine Tumour Investigation of Radiation and Antiangiogenic Agents Using Serial MRI, University of Toronto Department of Radiation Oncology Research Day 2010 Oral Presentation, Toronto. 2010

Intracranial Murine Tumour Investigation of Radiation and Anti-Angiogenic Agents Using Serial MRI, Imaging for Treatment Assessment in Radiation Therapy (ITART), 2010 Oral Presentation, Maryland, USA. 2010

Intracranial Murine Tumour Investigation of Radiation and Antiangiogenic Agents using Serial MRI, Canadian Association of Radiation Oncology (CARO) 2010 Oral Presentation, Vancouver. 2010

Multidisciplinary Management of Brain Metastases, Princess Margaret Hospital Conference, Toronto. 2010

Serial multiparametric MRI in study design and response evaluation of radiation and antiangiogenic therapy in an intracranial murine glioblastoma model, The International Society for Magnetic Resonance in Medicine (ISMRM) 2010 Poster Presentation, Montreal. 2010

Murine Model for Early Biomarkers of Response to Antiangiogenics and RT, Imaging Network of Ontario 9<sup>th</sup> Annual Symposium, Toronto. 2011

Role of Radiosurgery for Brain Metastases in the Oligometastatic Lung Cancer, Ontario Thoracic Cancer Conference, Niagara-on-the-Lake. 2011

Update on Radiosurgery for Neuro-oncology at University Health Network, City Wide Neuro-oncology Rounds, Toronto. 2011

### **Chung, Hans**

Managing Concurrent Chemoradiation in GI Cancers: a Multi-disciplinary Approach. Sunnybrook Radiation Therapist CME Event, Sunnybrook Health Sciences Centre, Toronto. 2011

### **Chung, Peter**

Image Guided Radiation Therapy in Prostate Cancer, IGRT Education Course, Princess Margaret Hospital, Toronto. 2010

New Information Reforming Clinical Practice, IGRT Education Course, Princess Margaret Hospital, Toronto. 2010

Post-Prostatectomy Radiation Therapy – PMH Uro-Oncology Dialogue Meeting, Blue Mountain, Collingwood. 2010

Radiotherapy in the Management of Sarcoma. Sarcoma Patient Event Lecture, Mount Sinai Hospital, Toronto. 2010

Skin Cancer, 15<sup>th</sup> Annual National Canadian Preparatory Course in Clinical and Radiation Oncology. McGill University, Montreal. 2010

Skin Cancer, 16<sup>th</sup> Annual National Canadian Preparatory Course in Clinical and Radiation Oncology. Ottawa Cancer Centre, Ottawa. 2011

Soft tissue sarcomas. Michener Institute, Health Sciences Building, Toronto, Ontario. 2011

**Coolens, Catherine**

4D Functional imaging for treatment response assessment in radiotherapy, Credit Valley Hospital, Mississauga. 2011

**Craig, Tim**

SmartArc Commissioning and Implementation: The PMH experience. Arc Therapy as Accelerated IMRT: Principles, Practice and Implementation, Metropolitan Hotel, Toronto. 2011

**Cummings, Bernard**

Case based teaching – gastrointestinal cancers. Princess Margaret Hospital Radiation Medicine Education Program: Current Strategies in Radiation Therapy, Mexico City, Mexico. 2010

Conservative treatment of low rectal cancer. ASTRO International Education Program. Annual Meeting Society of Radiation Oncologists of Chile, Coquimbo, Chile. 2010

Radiation treatment of metastases from colorectal cancer. Colorectal Cancer Association of Canada, Montreal. 2010

Radiation therapy in Pancreas Cancer. ASTRO International Education Program. Annual Meeting Society of Radiation Oncologists of Chile, Coquimbo, Chile. 2010

The development of treatment for anal cancer: from conventional to conformal. 32<sup>nd</sup> Annual Congress of the Association of Radiation Oncologists of India (AROI), Patna, India. 2010

When change is progress. Reflections on 38 years of Head and Neck Radiation Oncology. Wharton/Elia Day, Annual Meeting, Princess Margaret Hospital, Toronto. 2010

Radiation Therapy, Rectal Cancer and Clinical Trials: Lessons and Opportunities. The Cosbie Lecture, NCIC Clinical Trials Group Spring Meeting, Toronto. 2011

**Czarnot, Gregory Jan**

Microbubble and Ultrasound Enhancement of Radiation-Induced Tumour Cell Death *in Vivo*. American Institute of Ultrasound in Medicine (AIUM) Annual Meeting, San Diego, USA. 2010

Micro-Doppler Ultrasound in Monitoring Cancer Therapy Responses. Acoustical Society of America (ASA) 2<sup>nd</sup> Pan-American/Iberian Meeting on Acoustics, Cancun, Mexico. 2010

Novel Low-Frequency Ultrasound Detection of Apoptosis *in Vitro* and *in Vivo*. Ultrasonic Imaging and Tissue Characterization (UITC) Annual Symposium, Arlington, USA. 2010

Power Doppler Micro-Ultrasound Evaluation of Anti-Cancer Therapy Effects. American Institute of Ultrasound in Medicine (AIUM) Annual Meeting, San Diego, USA. 2010

**D'Souza, Neil**

How NOT To Get Your Cancer Centre in The New York Times: Quality and Safety in Radiation Oncology. Radiation Oncology Quality Assurance Rounds, Odette Cancer Centre, Sunnybrook Health Sciences Centre, Toronto. 2010

Moderator. IMRT Quality Assurance And Safety. Target Insight IV: IMRT, Transforming Practice Through Collaboration. Department of Radiation Oncology, University of Toronto, Toronto. 2010

Quality Improvement in Radiation Oncology: Practice Change at The Odette Cancer Centre. Radiation Oncology Quality Assurance Rounds, Odette Cancer Centre, Sunnybrook Health Sciences Centre, Toronto. 2010

The Importance Of Communication In Preventing Errors And Catching Near Misses In Health Care. Inter-professional healthcare students lecture series. Sunnybrook Health Sciences Centre/University of Toronto, Toronto. 2010

The Role of Communication in Preventing Health Care Errors. University of Toronto Institute of Healthcare Improvement Chapter Lecture Series, University of Toronto, Toronto. 2011

A Decade of Quality Improvement in Radiation Therapy at the Odette Cancer Centre: What We've Learned and Where We're Going. Radiation Oncology Quality Assurance Rounds, Odette Cancer Centre, Sunnybrook Health Sciences Centre, Toronto. 2011

**Davey, Phil**

Hyperfractionation Treatment of Brain Mets. Rapid Radiation Response Program Rounds, Odette Cancer Centre, Sunnybrook Health Sciences Centre. Toronto. 2011

**Dinniwell, Robert**

Topography of Locoregional Lymph Node Metastases and Its Impact on the Radiotherapeutic Clinical Target Volume in Patients with Locally Advanced Breast Cancer. Presented at the Radiological Society of North America Annual Meeting, Chicago, USA. 2010

Clinical Target Volume Delineation GYN – Hand’s-on Contouring, Spring Meeting UNYSTRO (Upper New York Society for Therapeutic Radiology and Oncology, Syracuse, USA. 2011

Pelvic and Inguinal Lymph Node clinical Target Volume Delineation, Target Insight, Toronto. 2011

**Feuz, Carina**

Bridging the Gap for Students from Developing Countries: An Educators’ Anecdotal Experience. The 7<sup>th</sup> Annual Radiation Medicine Conference RTi3, Chestnut Conference Centre, Toronto. 2010

Radiation therapy: Treatment of cancer. University of Toronto Summer Mentorship Program, Princess Margaret Hospital, Toronto. 2010

De novo development of an Interprofessional Palliative Care Case-Based Simulation. Educational Exchange - AAPHM/HPNA Annual Assembly, Vancouver. 2011

From chalkboards to iPads: Teaching across the generations. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, Winnipeg Convention Centre, Winnipeg. 2011

Preceptorship Workshop 1. Medical Radiation Sciences Clinical Preceptorship Course, Odette Regional Cancer Centre, Toronto. 2011

Preceptorship Workshop 2. Medical Radiation Sciences Clinical Preceptorship Course, Princess Margaret Hospital, Toronto. 2011

**Gillian, Caitlin**

Engaging Young Leaders in the MRT Community. CAMRT Leadership Development Institute, Ottawa. 2010

Options & Opportunities. St Clement’s School, Toronto. 2010

Collaborating for Quality. 8<sup>th</sup> Annual RTi3 Conference, Toronto. 2011

**Gospodarowicz, Mary**

Cancer Program Kuwait Cancer Control Center, Kuwait City, Kuwait. 2010

Cancer staging and prognosis in the era of personalized medicine Excellence in Oncology – Cutting Edge Findings into Clinical Practice Athens, Greece. 2010

Can we make high technology radiotherapy affordable? (Session Chair) UICC World Cancer Congress, Shenzhen, China. 2010

Case presentations in Hodgkin’s lymphoma ASTRO Annual Meeting, Boston, USA. 2010

Cancer staging and prognosis NCRI Cancer Conference, Liverpool, USA. 2010

Global health in radiation oncology (ARRO resident session chair), ASTRO Annual Meeting, Boston, USA. 2010

Internet applications and cancer (Session Chair) UICC World Cancer Congress, Shenzhen, China. 2010

Radiation Oncology – Quo Vadis?, Gordon Richards Lecture, CARO Annual Meeting, Vancouver. 2010

Radiation therapy for stage I seminoma, game on or game over? ASTRO Annual Meeting, Boston, USA. 2010

Role of radiotherapy in DLBCL Aggressive Lymphomas Workshop, Bologna. 2010

The World Cancer Declaration – A call to action from the global community  
UICC World Cancer Congress, Shenzhen, China. 2010

World Cancer Day – Cancer can be prevented, too 59<sup>th</sup> IFMSA General Assembly, Montreal. 2010

### **Haider, Masoom**

Case-based Review of Magnetic Resonance: Abdomen and Pelvis (In Conjunction with the International Society for Magnetic Resonance in Medicine). RSNA 2010, Chicago, USA. 2010

Clinical Perspectives on Prostate Cancer Imaging and Therapeutics. Special Clinical Session. 2010 IEEE International Ultrasonics Symposium. San Diego, USA. 2010

Integrated Scientific Program Genitourinary Keynote Speaker: Prostate MRI: Ready for Prime Time. RSNA, Chicago, USA. 2010

MRI of the Prostate. Thunder Bay Medical Society Summer Course, Thunder Bay. 2010

The Cystic Lesions of the Pancreas. Refresher Course. RSNA, Chicago, USA. 2010

Prostate MRI: Advanced Imaging and Interventional Techniques. Society of Uroradiology Annual Meeting, Carlsbad, USA. 2011

### **Harnett, Nicole**

A Tale of Two Advanced Practice Radiation Therapy Roles at the Juravinski Cancer Centre in Hamilton, Ontario, Canada. Radiation in Therapy Conference, Sheffield, UK. 2010

Advancing practice: Lessons learned from radiation therapy. 68<sup>th</sup> Annual CAMRT Conference, Quebec City. 2010

Advanced practice in Radiation Therapy: Bright Future or Future Shock? 7<sup>th</sup> Annual Radiation Therapy Conference (RTi3), Toronto. 2010

Multi-site CSRT Collaboration: Increasing aboriginal people's access to cancer care. 7<sup>th</sup> Annual Radiation Therapy Conference (RTi3) Received award for "Best Poster" of the conference. Toronto. 2010



Organs-At-Risk (OAR) in H&N Radiation Therapy – Delineation Challenges and Dosimetric Relevance. Canadian Association of Radiation Oncology (CARO), Vancouver. 2010

The impact of contouring specialists on the process of head and neck IMRT treatment planning. 7<sup>th</sup> Annual Radiation Therapy Conference (RTi3), Toronto. 2010

There's no "I" in IMRT: the perceived value of an interprofessional approach to learning about Intensity-modulated Radiation Therapy. Target Insight Annual Conference, Toronto. 2010

Weekly Radiotherapy Treatment Review: A Concordance Study between a Breast Site Clinical Specialist Radiation Therapist & Radiation Oncologist in Patient Assessments. 68<sup>th</sup> CAMRT Annual General Conference, Quebec City. 2010

**Hayter, Charles**

Understanding the Needs of Gay Men With Prostate Cancer, Workshop Presentation, Rainbow Health Ontario Conference, Toronto, Ontario. 2010

From Private Practice to Public Problem: Cancer Control in Canada, 1900-1950, Colloque Histoire de Cancer 1750-1950, Universite de Toulouse, Toulouse, France. 2011

**Heaton, Robert**

Reference Dosimetry: From the Standards Lab to the Clinic. Kuwait Cancer Control Centre, Kuwait City, Kuwait. 2011

The evolution of total body irradiation delivery at Princess Margaret Hospital. Kuwait Cancer Control Centre, Kuwait City, Kuwait. 2011

**Higgins, Jane**

Impact of Daily CBCT on Setup Error and Setup Margins for Conventionally Fractionated Lung Radiotherapy Patients, Radiation Therapy Conference: Inquire Inspire Innovate (RTi3), Toronto. 2010

Finding your Best Match: 3D and 4D lung Image-Guided Radiotherapy, Ontario Association of Medical Radiation Technologists (OAMRT), Huntsville Deerhurst, USA. 2011

**Hill, Richard**

Are stem cells rare in tumours? Oncology at the Limits Conference, Cape Town, South Africa. 2010

Assessing DNA damage in skin for Biodosimetry. Defence Canada, Medical Preparedness Workshop, Ottawa. 2010

Assessing DNA damage in skin for Biodosimetry. Molecular Oncology and Basic Sciences Course, Niagara on the Lake. 2010

Assessing DNA damage in skin for Biodosimetry. NIAID/NIH Meeting, Radiation-induced cutaneous injury, Bethesda, USA. 2010

Cancer stem cells, knowns and unknowns, Manitoba Institute of Cell Biology, Cancer Care Manitoba. 2010

Cancer stem cells, knowns and unknowns. 3<sup>rd</sup> International Meeting of Investigative Pathology, San Paulo, Brazil. 2010

Cyclic Hypoxia and Metastasis. Tumour Microenvironment Meeting, Toronto. 2010  
Effect of Genistein and EUK-207 on Radiation Induced Lung Damage. NIAID/NIH Meeting on Radiation Induced Lung Injury, Bethesda, USA. 2010

Hypoxia and Stem Cells in Tumours. OICR Cancer Stem Cell Program, Toronto. 2010

Investigating the Microenvironment of Tumours .U of Toronto Dept of Medical BioPhysics Annual Meeting, Geneva Park. 2010

Investigating the Microenvironment of Tumours. Radiation Research Society Annual Meeting, Maui, USA. 2010

Mechanisms of Metastasis. Terry Fox Research Institute, Annual Scientific Meeting, Vancouver. 2010

Progression in Cervix Cancers: Role of the Microenvironment. Center for Biophysical Assessment & Risk Management Following Irradiation Retreat, Rochester, USA. 2010

Radiation Treatment Factors and Cellular Response. Molecular Bases of Radiation Resistance of Human Cancers, Bethesda, USA. 2010

### **Hodgson, David**

Controversies in the Management of T-cell Lymphomas (Panel Discussant). Conference on the Evidence-based Management of Cancers, Tata Memorial Hospital, Mumbai, India. 2010

Management of Early Stage Follicular Lymphoma. Annual Scientific Meeting, American Society of Therapeutic Radiology and Oncology, San Diego, USA. 2010

Ovarian Function Among Young Women Treated for Breast Cancer. Canadian Breast Cancer Foundation Public Education Event, Scarborough. 2010

Radiotherapy has an Important Role in the Management of Diffuse Large B-cell Lymphoma in the Rituximab era. Eighth Annual Evidence Based Management of Cancers. Tata Memorial Hospital, India. 2010

Role of Radiation Therapy in Extranodal Aggressive Non-Hodgkin Lymphoma. Eighth Annual Evidence Based Management of Cancers. Tata Memorial Hospital, India. 2010

The Evolution of Treatment for Pediatric Hodgkin Lymphoma: the North American Experience. Pediatric Radiation Oncology Society Congress/Annual Scientific Meeting of the International Society of Pediatric Oncology. 2010

Update of Pediatric Hodgkin Lymphoma Trials. Annual Meeting, Children's Oncology Group, Dallas, USA. 2010

Update on the Management of Extranodal Aggressive Histology Lymphoma. Annual Conference on the Evidence-based Management of Cancers, Tata Memorial Hospital, Mumbai, India. 2010

Towards Personalized Medicine for Young Cancer Patients: Modifying Treatment for an Uncomplicated Cure. RTi3 Radiation Therapy Conference, Toronto. 2011

**Hope, Andrew**

Stereotactic Lung Radiation Therapy. Belfast City Hospital Lung Masterclass, Belfast, Ireland. 2011

Extracranial stereotactic irradiation, Annual meeting of the Irish Association of Radiation Oncology, Galway, Ireland. 2011

**Huang, SH**

Human Papillomavirus and Cancers, Radiation Therapy Research Round, Odette Cancer Centre, Toronto. 2010

MRT(T) Research Bites: Truths and Myths About HPV and Oropharyngeal carcinoma, Joint UT DRO Rounds. Princess Margaret Hospital, Toronto. 2010

Current Knowledge about HPV-related Oropharyngeal Carcinoma. Radiation Therapy Team 1 Meeting, Toronto. 2011

**Jaffray, David**

Adapting to the Changing Technological Environment. Elekta SAB Meeting, Toronto. 2010

Adaptive Radiation Therapy: 2<sup>nd</sup> Order Correction or the Future of RT. IMRT Insight. Old Mill, Toronto. 2010

Evaluation of Technology: Relevant Endpoints from the Perspective of the Physicist. AMPICON Scientific Meeting, Lucknow, India. 2010

James A. Purdy Medical Physics Lecture. Image-guided RT: Asymptote or Renaissance? Washington University, Washington, USA. 2011

John S. Lauglin Memorial Lecture Visiting Professorship ( MSKCC) Memorial Sloan-Kettering Cancer Center. 2010

New Frontiers in Image- Guided Radiotherapy: Investigation in Nanotechnology. AMPICON Scientific Meeting, Lucknow, India. 2010

Novel Technology and Experience in Image – Guided SRA/ SBRT. KSMP International Meeting, Seoul, Korea. 2010

Quantification of Unwanted Dose in Perfexion. 15<sup>th</sup> Int'l Leksell Gamma Knife Society Meeting, Greece, Athens. 2010

SRT with “Perfexion. 15<sup>th</sup> Int'l Leksell Gamma Knife Society Meeting, Greece, Athens. 2010

TG- 104: IN-room kV Computed Tomography for Image-Guidance. AAPM Annual Meeting, Philadelphia, USA. 2010

What can Anatomical Treatment Assessment Tell Us. ITART, Gaylord National Hotel and Convention Center, National Harbor, USA. 2010

What are we doing to Address Patient Safety. ASTRO/AAPM, (SRI) Safety in Radiation Therapy. Miami, USA. 2010

IGRT, Inter and Intra Fractional Motion Management. International Centre for Theoretical Physics. Trieste, Italy. 2011

Image-guided Radiation Therapy: Asymptote or Revolution? RMP Rounds, Princess Margaret Hospital, Toronto. 2011

Importance of Actual Versus Planned Delivered Dose Distributions. Radiogenomics Consortium Workshop, ESTRO, London, United Kingdom. 2011

Monte Carlo Calculations and Advanced Planning: Monte Carlo Current Status, Speed and Accuracy. International Centre for Theoretical Physics, Trieste, Italy. 2011

MR-Based Target Verification: Development of an MR-guided LINAC. IMRT Insight: On Target On Tract, Toronto. 2011

New Image Guided Cancer Therapies – Image-Guided Radiation Therapy: From Current Concept to Future Perspectives. 2011 European Multidisciplinary Cancer Congress: Scientific Symposium, Stockholm, Sweden. 2011

Overview of Medical Imaging in Radiation Therapy Including ICRU Concepts. International Centre for Theoretical Physics, Trieste, Italy. 2011

Patient Immobilization, for Precision RT, Body Frames, Visual Patient Tracking, Respiratory Management. International Centre for Theoretical Physics, Trieste, Italy. 2011

Patient Specific QA for IMRT: Dosimetry, EPID and Cone Beam CT, MVCT (KV-CBCT). International Centre for Theoretical Physics, Trieste, Italy. 2011

The Future of Image-Guided Radiation Therapy: Mighty Machines or Nanotech? EIRR21 Brainstorm Session, Princess Margaret Hospital, Toronto. 2011

### **Keller, Brian**

Permanent breast seed implants: The physics perspective. Sunnybrook Health Sciences Centre. Inter-disciplinary radiation oncology rounds. (Web-Cast), Toronto. 2011

### **Keller, Harald**

Texture-based segmentation of Glioblastoma Multiforme Tumors in MR Images. XVth International Conference on the Use of Computers in Radiation Therapy (ICCR), Amsterdam, The Netherlands. 2010

Texture Changes On Hartley Transformed MRI Images as An Early Indicator of Treatment Response in Glioblastoma Multiforme. Imaging for Treatment Assessment in Radiation Therapy (ITART), Washington, USA. 2010

**Kim, John**

The Multi-Disciplinary Approach to Rectal Cancer Management: Radiation Oncology Perspective, Sudbury Regional Cancer Centre, Sudbury. 2011

Conformal Radiotherapy for Pelvic GI Cancers, CCO Coaching Visit, Grand River Regional Cancer Centre, Kitchener. 2011

Does Mesorectal Fascia Involvement Need Tailored Treatment? Kuwait Cancer Control Center, Kuwait. 2011

The Radiation Oncology Management of Rectal Cancers, Radiation Oncology Grand Rounds, Kuwait Cancer Control Center, Kuwait. 2011

The Principles of IGRT for Pelvic Cancers, Kuwait Cancer Control Center, Kuwait. 2011

The Principle of IGRT for Pelvic Cancers: Clinical Implementation strategies, Radiation Oncology Grand Rounds, Kuwait Cancer Control Center, Kuwait. 2011

Image Fusion and Registration, Kuwait Cancer Control Center, Kuwait. 2011

**Koch, Anne**

Characterizing the dynamic assembly of APLF at sites of DNA damage. Maintenance of Genome Stability Conference. Antigua. 2010

What's new in breast cancer in 2010, PMH Conference, Toronto. 2010

PARP1 facilitates the ATM-dependent phosphorylation of APLF which is involved in the DNA damage response. Accepted for poster presentation, Keystone Symposia Genomic Instability and DNA Repair, Keystone Colorado, USA. 2011

Poly(ADP-ribose)-dependent signaling in the DNA damage response. Oral presentation, 9<sup>th</sup> Conference on Signalling in Normal and Cancer Cells, Banff. 2011

**Koritzinsky, Marianne**

Tumor cell adaptation to hypoxia – therapeutic exploitation with radiation, 56<sup>th</sup> Annual Meeting of the Radiation Research Society, Maui, USA. 2010

**Laperriere, Normand**

Annual Meeting of The Chinese Society of Radiation Oncology (CSTRO) and The Sino-American Network for Therapeutic Radiology and Oncology (SANTRO), Hangzhou, China. 2010

Ask the Panel: Expert Panel. The Management of Brain Tumours. Canadian Brain Tumour Foundation, Patient information day, Calgary. 2010

Challenges in the Assessment of T1 Gadolinium and T2 Flair Images in the RESCUE Study. RESCUE Volumetric Study, Montreal. 2010

Detection of Pseudoprogession and Pseudoresponse. Canadian Research Update Meeting, Satellite Meeting to the 14<sup>th</sup> Biennial Canadian Neuro-Oncology Meeting, Niagara-on-the-Lake. 2010

New Developments in Radiation Therapy for Brain Tumours. Canadian Brain Tumour Foundation, Patient information day, Calgary. 2010

RESCUE Volumetric Imaging: Review Process, Guiding Principles for T1 Gadolinium and Flair Analysis. Canadian Research Update Meeting, Satellite Meeting to the 14<sup>th</sup> Biennial Canadian Neuro-Oncology Meeting, Niagara-on-the-Lake. 2010

The Role of Concomitant Chemo-Radiation in the Treatment of Malignant Glioma. 2010

The Role of Radiation Therapy in Chordomas – Photon, Proton, Radiosurgery – Which is Better? Participant, 2010 William S. Keith Visiting Professorship in Neurosurgery, University of Toronto, Toronto. 2010

The Role of Temodal with Radiation in Malignant Gliomas. 2010 Annual Meeting of The Chinese Society of Radiation Oncology (CSTRO) and The Sino-American Network for Therapeutic Radiology and Oncology (SANTRO), Hangzhou, China. 2010

The Role of Temodal with Radiation in Malignant Gliomas. Guangzhou and Beijing Brain Tumour Interest Groups, Beijing, China. 2010

The Role of Temodal with Radiation in Malignant Gliomas. Shanghai Brain Tumour Interest Group, Shanghai, China. 2010

Advances in Radiotherapy in Low-Grade Glioma After Surgical Resection. 2011 Current Trends in the Management of Malignant Glioma: The Changing Landscape. Sao Paulo, Brazil. 2011

Brain Tumour Foundation of Canada: Think Tank, Banff. 2011

Fractionated Radiation Therapy for Atypical Meningiomas. 21st North American Skull Base Society Meeting, Phoenix, USA. 2011

Fractionated Radiotherapy for Craniopharyngioma. 21st North American Skull Base Society Meeting, Phoenix, USA. 2011

Image Guided Photon IMRT for Skull Base Chordomas and Chondrosarcomas. 21st North American Skull Base Society Meeting, Phoenix, USA. 2011

New Radiation Therapy Strategies in the Management of High-Grade Glioma. 2011

Current Trends in the Management of Malignant Glioma: The Changing Landscape. Sao Paulo, Brazil. 2011

New Strategies in the Management of Glioblastoma in the Elderly. Maisonneuve-Rosemont Hospital,

Montreal. 2011

New Strategies in the Management of Glioblastoma in the Elderly. Trois Rivieres Medical Health Centre, Trois Rivieres. 2011

New Strategies in the Management of Glioblastoma in the Elderly. City Wide Neuro-Oncology Rounds, Quebec City. 2011

New Strategies in the Management of Glioblastoma in the Elderly. City Wide Neuro-Oncology Rounds, Montreal,. 2011

Recent and Current Studies in the Management of High Grade Gliomas. Merk Brain Tumour Consultant Meeting: Western Canada, Vancouver. 2011

Strategies and Results for Management of Glioblastoma in the Elderly. Merk Brain Tumour Consultant Meeting: Western Canada, Vancouver.. 2011

The Silver Tsunami: Implications for the Management of Glioblastoma in the Elderly. North Simcoe Muskoka Regional Cancer Program, Barrie. 2011

**Lee, Justin**

Making personalized medicine a reality: Implications of new imaging technologies from bench to bedside. 11<sup>th</sup> Edition of Insight Information's Clinical Trials in Canada, Toronto. 2010

**Letourneau, Daniel**

Online Planning and Delivery Technique for Palliative Radiotherapy of Bone Metastases. Invited Speaker at ESTRO 29, Barcelona, Spain. 2010

Volumetric Modulated Arc Therapy for Extracranial SBRT. Invited Speaker at Cleveland Clinic's Fourth International Symposium on Stereotactic Body Radiation Therapy and Stereotactic Radiosurgery, Orlando, USA. 2011

**Lindsay, Patricia**

Development of an Image-Guided Small Animal Irradiation Platform, University of Western Ontario, Department of Physics and Astronomy Seminar Series, London. 2011

**Liu, Fei-Fei**

An RNAi screen identifies a heme biosynthetic mediator as a novel radiosensitizing target for head and neck cancer. Special Symposia: Future Leaders in Translational Research. 101<sup>st</sup> Annual Association for Cancer Research. Washington, USA. 2010

Biology of HNC; HPV & OPC. Invited speaker for Amgen Preceptorship, PMH, Toronto. 2010

Effect of the novel oncomir MiR-301 on tumor proliferation and invasion in human breast cancer. American Society of Clinical Oncology 2010 Annual Meeting. Chicago, IL, USA. 2010

Mechanisms and Consequences of miR-218 Down-regulation in Head and Neck Cancers. 2nd AACR Dead Sea International Conference Advances in Cancer Research: From the Laboratory to the Clinic. Dead Sea, Jordan. 2010

Overview of the PMH/OCI HNC Translational Research Program. Invited speaker at OCI Retreat, Deerhurst. 2011

Potential importance of micro-RNA-193b in human head and neck squamous cell carcinoma. 101<sup>st</sup> Annual Association for Cancer Research. Washington, USA. 2010

Proteomic Profiling of Head and Neck Squamous Cell Carcinoma Cell Lines. 102<sup>nd</sup> Annual Association for Cancer Research, Orlando, USA. 2011

Regional Cancer Rounds at Juravinski Cancer Center; “Current status of HPV in HNC”. Hamilton. 2010

The role of microRNA-196b in cervical cancer. 101<sup>st</sup> Annual Association for Cancer Research. Washington, USA. 2010

UROD – a novel radiosensitizing target for HNC. University of Pennsylvania. Philadelphia, USA. 2011

**Liu, Stanley**

Inhibition of Dll4-Notch Signaling in tumor and vasculature enhances the response to radiation. Oxford Cancer Imaging Retreat 2010, Grey Institute for Radiation Oncology and Biology, University of Oxford, Oxford, UK. 2010

Inhibition of Dll4-Notch Signaling in tumor and vasculature enhances the response to radiation. Ontario Institute for Cancer Research (OICR) 4<sup>th</sup> Annual Scientific Meeting, Alliston. 2011

Microbubble Contrast Ultrasound to Monitor “In Vivo” Tumor Perfusion in Response to Notch Pathway Inhibitors. Invited Oral presentation at 2011 Annual meeting of the American Institute of Ultrasound in Medicine (AIUM), San Diego. 2011

**Loblaw, Andrew**

Active Surveillance – the Canadian Experience. Scandanavian Prostate Cancer Group, Rimbo, Sweden. 2010

Branson Multi Disciplinary Cancer Clinics – How We Do it. Juravinsky Uro-Oncology Retreat, Niagara-on-the-Lake. 2010

Hypofractionated Radiotherapy – Doing More with Less. University of Western Ontario Fall Review in Uro-Oncology, Niagara-on-the-Lake. 2010

Prostate Cancer Clinic: A Care Model. University of Western Ontario Fall Review in Uro-Oncology, Niagara-on-the-Lake. 2010

Radiation Trials Update. Prostate Cancer Consultant Meeting, Whistler. 2011

The Future of Prostate Cancer – The Radiation Oncology Perspective. Issues & Controversies in Prostate Care, Whistler. 2011

New Technology and Radiation Oncology – More Hype than Hope? North York General Hospital Grand Rounds, Toronto. 2011



Non-Surgical Approaches to High-Risk Disease. Issues & Controversies in Prostate Care, Whistler. 2011

Radiation and hormones should be the standard of care for high risk localized prostate cancer. Toronto Urology Rounds, Toronto. 2011

The Value of Biological Dose Escalation in Prostate Cancer. Department of Radiation Oncology Rounds, University of Toronto, Toronto. 2011

**MacPherson, Miller**

Advances in Technology for Modern Radiotherapy”, IMRT Insights, Toronto. 2010

Medical Physics Staffing for Radiation Treatment: A Robust Algorithm with Trans-Canada Validation. Joint AAPM/ COMP Meeting, Vancouver. 2011

Patient specific QA experience at the Carlo Fidani Peel Regional Cancer Center. IMRT Insights, Toronto. 2010

Two Years of Volumetric Modulated Arc Therapy at the Credit Valley Hospital, Juravinski Regional Cancer Centre, Hamilton. 2010

User Dependence of Three Radiation Oncology Incident Reporting Ranking Systems. COMP AGM, Ottawa. 2010

Clinical Implementation of Electron Monte Carlo for Breast Boost Radiation Therapy: A Retrospective Study to Improve Target Volume Dose Coverage. Joint AAPM/ COMP Meeting, Vancouver. 2011

RapidArc Clinical Applications, Advanced Technology Symposium, Toronto. 2011

RapidArc planning standardization for high quality and efficiency in prostate and post-prostatectomy radiation therapy. Joint AAPM/ COMP Meeting, Vancouver. 2011

Re-Evaluation of Transmissions for a Commercial Tungsten Eye Shield in Electron Beams Using Radiochromic Film. Joint AAPM/ COMP Meeting, Vancouver. 2011

Using the Gafchromic EBT2 Film and the NACP Parallel Plate Ion Chamber to Commission the Total Skin Electron Treatment. Joint AAPM/ COMP Meeting, Vancouver. 2011

Validation of 3DVH software used in patient specific IMRT quality assurance. 11<sup>th</sup> Biennial ESTRO Conference on Physics and Radiation technology for Clinical Radiotherapy, London, UK. 2011

Validation of Plan Dose Perturbation Software for use in Patient Specific IMRT Quality Assurance Joint AAPM/ COMP Meeting, Vancouver. 2011

**Mah, Kathy**

Overview of Motion Management Strategies. IMRT insight, On Target, On Track Conference, University of Toronto, Toronto. 2011

Assessing the role of VMAT relative to IMRT and Helical Tomotherapy In The Management Of Localized, Locally Advanced, and Post-operative Prostate Cancer. ASTRO Annual Scientific Meeting, San Diego, USA. 2010

**Manchul, Lee**

A discussion on Sharing Patient Safety and Quality Improvement Education. AAMC 2010 Annual Meeting, Washington, USA. 2010

Foundations in Continuing Medical Education. Workshop presented at the AMEE Annual Meeting, Glasgow, Scotland. 2010

Using Focus Groups in Educational Research and Evaluation. Workshop presented at the AMEE Annual Meeting, Glasgow, Scotland. 2010.

Communication Skills and the Oncologist: The Cancer Patient's Viewpoint. Oral presentation. AoME Annual Academic Meeting, London. 2011

Developing and Evaluating Interprofessional, Interdisciplinary Quality and Performance Improvement Initiatives in the Workplace. Workshop. CACHE (Canadian Association of Continuing Health Education) Annual Conference, Banff. 2011

Focus Groups In Continuing Health Professional Education: How to Design and Facilitate Focus Groups for Educational Development, Evaluation and Research. Workshop. CACHE (Canadian Association of Continuing Health Education) Annual Conference, Banff. 2011

Incorporating CANMED's Roles into Guideline Implementation: A CE/PD Perspective. Workshop. CACHE (Canadian Association of Continuing Health Education) Annual Conference, Banff. 2011

**McGowan, Tom**

Discrete data field (DDF) synoptic cancer pathology reporting enables timely prognostic factor analysis and quality indicator reporting: a population-based study of 4,296 resection reports in Ontario. United States and Canadian Academy of Pathology (USCAP) Conference, Washington, USA. 2010

Prostate bed localization in post-prostatectomy image-guided radiation therapy, American Association of Physicists in Medicine, (AAPM) Annual Meeting, Philadelphia, Pennsylvania, USA. 2010

Prostate bed localization in post-prostatectomy image-guided radiation therapy, European Society for Therapeutic Radiology and Oncology, (ESTRO), Barcelona, Spain. 2010

**McLean, Michael**

Comparison of toxicity and biochemical outcomes of patients treated with permanent prostate implant for low risk prostate cancer using two different seed types (poster presentation) University of Toronto, Radiation Oncology Research Day, Toronto. 2010

Does 3D vs 2D planning techniques make a difference in palliative radiotherapy? (oral presentation) University of Toronto, Radiation Oncology Research Day, Toronto. 2010

Is there any advantage is using stranded sees over loose sees in permanent radioactive seed implant for low risk prostate cancer? (oral presentation) University of Toronto, Radiation Oncology Research Day, Toronto. 2010

The role of specialized palliative radiotherapy (RT) programs a decade of the palliative radiation oncology (PROP) experience at PMH. (oral presentation) University of Toronto, Radiation Oncology Research Day, Toronto. 2011

**Ménard, Cynthia**

Imaging in Radiotherapy. American Society for Radiation Oncology (ASTRO) IMRT, IGRT Symposium, Chicago, USA. 2010

MRI in prostate. ESTRO Advanced Imaging for Physicists, The Netherlands. 2010

Pelvis: Case Management Panel. American Society for Radiation Oncology (ASTRO) IMRT, IGRT Symposium, Chicago, USA. 2010

Augmenting radiotherapy with MRI-guided tissue sampling. CERRO Annual Meeting, Les Menuires, France. 2011

Disease Specific Breakout Session-Prostate. Presenter, Cancer Imaging and Radiation Therapy Symposium. Atlanta, USA. 2011

High dose brachytherapy as a salvage modality post XRT. GU Cancer Seminar Series. London Regional Cancer Program. London. 2011

MR Imaging of Prostate Cancer: Targeting the Dominant Nodule. Target Insight V. On Target. On Track. Toronto. 2011

Prostate IMRT/IGRT. Cancer Centre of Southeastern Ontario at Kingston General Hospital. Kingston. 2011

Prostate Cancer: Imaging and Guidance. State of the Art Techniques: IMRT, IGRT, SBRT Meeting. Las Vegas, USA. 2011

Prostate Cancer: Imaging & Guidance. Juravinski Cancer Centre, Radiation Treatment Program, Seminar Series. London. 2011

**Millar, BA**

RMP Rounds. Hunting and Foraging for Medicine Based Medicine, Princess Margaret Hospital, Toronto. 2010

**Milosevic, Michael**

Adaptive Radiotherapy: The next frontier in radiation medicine. Workshop on Mathematical Oncology III, Field's Centre for Mathematical Medicine, Toronto. 2010

Challenging IMRT Sites: Gynecologic cancer. IMRT Insights: Transforming Practice Through Collaboration. Department of Radiation Oncology Continuing Medical

Education, University of Toronto, Toronto. 2010

Error prevention in academic radiation treatment centers. Annual Meeting of the American Society for Radiation Oncology, San Diego, USA 2010

Canadian Partnership for Quality Radiotherapy. Quality and Safety in Radiation Oncology, COMP Winter School, Mont Tremblant. 2011

Canadian Partnership for Quality Radiotherapy. RTi3. Department of Radiation Oncology Continuing Medical Education, University of Toronto, Toronto. 2011

Canadian Partnership for Quality Radiotherapy, Canadian Association of Provincial Cancer Agencies (CAPCA) Board Meeting. 2011

Hypoxia and metabolism in human tumors. 17<sup>th</sup> International Hypoxia Symposium, Lake Louise. 2011

Mathematics in medical treatment. Medicine and its Models. Symposium jointly sponsored by the Medical Science Student Union and the Math Union, University of Toronto, Toronto. 2011

On target, on track: Towards optimal radiotherapy. IMRT Insights: On Target, On Track. Department of Radiation Oncology Continuing Medical Education, University of Toronto, Toronto. 2011

Quality assurance guidance for Canadian radiation treatment programs. Cancer Care Ontario Provincial Radiation Treatment Program Committee, Toronto. 2011

### **Morton, Gerald**

Brachytherapy Contouring Workshop. Annual Scientific Meeting of the American Brachytherapy Society. Atlanta, USA. 2010

High Dose-Rate Brachytherapy for Prostate Cancer. Presented at Grand Rounds, Durham Regional Cancer Centre, Oshawa. 2010

Prostate Brachytherapy, presented at Grand Rounds, The Carlo Fidani Peel Regional Cancer Centre, Mississauga. 2010

Prostate Brachytherapy Refresher Course. Annual Scientific Meeting of the American Brachytherapy Society, San Diego, USA. 2011

### **Nyhof-Young, Joyce**

A qualitative assessment of the supportive care and resource needs of patients undergoing craniotomy for benign brain tumours. Poster Presentation at the 2010 Cancer Education Conference, Joint Annual Meeting for AACE, CPEN, EACE, San Diego, USA. 2010

Aint Nothing Comic About It. International Association for Media and Communication Research: Comic Art Working Group. University of Minho, Braga, Portugal. 2010

Assessing the sleepwear and lingerie needs of post-mastectomy breast cancer survivors at Princess Margaret Hospital: A clothing design project, Toronto. 2010

Cancer Education Conference, Joint Annual Meeting for AACE, CPEN, EACE, San Diego, USA. 2010

Collaboration in Action: Using Team Based Learning in a Research Methods Course. Submission to the Association of Faculties of Medicine of Canada (AFMC) Conference, St. John's. 2010

Designing and evaluating a bra-guide for female breast cancer patients. Poster presentation at ELLICSR Survivorship Program launch, Toronto General Hospital, Toronto. 2010

Designing and Evaluating Illustrated Books about Testicular Cancer and Testicular Self-examination: Nothing Comic About It! Poster Presentation at the 2010 Cancer Education Conference, Joint Annual Meeting for AACE, CPEN, EACE, San Diego, USA. 2010

Development and Evaluation of a Lymphedema Self-Management Group Refresher Course for Breast Cancer Survivors at Princess Margaret Hospital. 3<sup>rd</sup> Annual Nursing Research Day: Person-Centred Care: Bridging Nursing Research and Nursing Practice. York University, Toronto. 2010

Development and Evaluation of a Lymphedema Self-Management Group Refresher Course for Breast Cancer Survivors at Princess Margaret Hospital. Poster presentation at ELLICSR Survivorship Program launch, Toronto General Hospital, Toronto. 2010

Development of an Experiential Elective in Spirituality for Preclerkship Undergraduate Medical Students: A pilot project. Poster Presentation at the 2010 Cancer Education Conference, Joint Annual Meeting for AACE, CPEN, EACE, San Diego, USA. 2010

Evaluating a behavioural intervention for breast cancer patients with self-reported cognitive dysfunction. 10th Princess Margaret Hospital Conference, Toronto. 2010

Evaluating the Fatigue Clinic at PMH: Working towards a model of patient empowerment. Invited poster presentation at the 3<sup>rd</sup> Annual Nursing Research Day: Person-Centred Care: Bridging Nursing Research and Nursing Practice. York University. Toronto. 2010

Evaluating the Fatigue Clinic at PMH: Working towards a model of patient empowerment. Poster presentation at ELLICSR Survivorship Program launch, Toronto General Hospital, Toronto. 2010

Fireside Chat with the Spiritual Care Team: Shifting Departmental Focus from Religious Care to Spiritual Care. TGH Change Collaborative Forum. Toronto. 2010

Incorporating multi-source feedback into a radiation oncology resident assessment system. University of Toronto, Department of Radiation Oncology, Annual Research Day, Saturday May 8, 2010. Faculty Club, University of Toronto. Toronto. 2010

Introducing the Research Program of the ELLICSR Health, Wellness & Cancer Survivorship Centre. Bridgepoint Health Hospital, Toronto. 2010

It's in the bag: Designing innovative functional apparel and accessories for female breast cancer survivors with lymphedema. Invited poster presentation at the 3<sup>rd</sup> Annual Nursing Research Day: Person-Centred

Care: Bridging Nursing Research and Nursing Practice. York University. Toronto. 2010

Meta-ethnography of Qualitative Research on Peer Support in Chronic Disease. University of Toronto Ogryzlo Day, Toronto. 2010

Nothing Comic About It! Design of Comic Book Health Messages about Testicular Cancer and Testicular Self-examination. Presentation submitted to Cancer Survivorship Research: Recovery and Beyond 2010 Conference. Washington, USA. 2010

Now I Lay Me Down to Sleep: Assessing the sleepwear and lingerie needs of post-mastectomy breast cancer survivors at Princess Margaret Hospital. Presentation submitted to Cancer Survivorship Research: Recovery and Beyond 2010 Conference. Washington, USA. 2010

Now I Lay Me Down to Sleep: Assessing the sleepwear and lingerie needs of post-mastectomy breast cancer survivors at Princess Margaret Hospital. 3<sup>rd</sup> Annual Nursing Research Day: Person-Centred Care: Bridging Nursing Research and Nursing Practice. York University, Toronto. 2010

Patient-centered Design and Validation of a Survey to Measure Satisfaction with Emotional Support for Cancer Patients at Princess Margaret Hospital in Toronto. Presentation at Cancer Survivorship Research: Recovery and Beyond 2010 Conference. Washington, USA. 2010

Patient-centered Design and Validation of a Survey to Measure Satisfaction with Emotional Support for Cancer Patients at Princess Margaret Hospital in Toronto. Podium Presentation at the 2010 Cancer Education Conference, Joint Annual Meeting for AACE, CPEN, EACE, San Diego, USA. 2010

Patient-centered Design and Validation of a Survey to Measure Satisfaction with Emotional Support for Cancer Patients at Princess Margaret Hospital in Toronto. Invited poster presentation at the 3<sup>rd</sup> Annual Nursing Research Day: Person-Centred Care: Bridging Nursing Research and Nursing Practice. York University. Toronto. 2010

Patient-centered Design and Validation of a Survey to Measure Satisfaction with Emotional Support for Cancer Patients at Princess Margaret Hospital in Toronto. Poster presentation at ELLICSR Survivorship Program launch, Toronto General Hospital, Toronto. 2010

This experience has changed me: Using a reflective paper in teaching community health to second year medical students. 3<sup>rd</sup> Annual Nursing Research Day: Person-Centred Care: Bridging Nursing Research and Nursing Practice. York University. Toronto. 2010

Understanding The Effects of Recorded Lectures On Undergraduate Medical Student Learning And Performance. Faculty of Medicine University of Toronto, Educational Achievement Event, Toronto. 2010

Validation of a Cancer Empowerment Scale with Breast Cancer Patients at Princess Margaret Hospital. Poster presentation at the 9<sup>th</sup> annual Princess Margaret Hospital Conference. Invited poster presentation at the 3<sup>rd</sup> Annual Nursing Research Day: Person-Centred Care: Bridging Nursing Research and Nursing Practice. York University. Toronto. 2010

A qualitative assessment of the supportive care and resource needs of patients undergoing craniotomy for

benign brain tumours. Poster presentation at the Annual Meeting of the Canadian Association of Psychosocial Oncology. Toronto. 2011

Assessing the sleepwear and lingerie needs of post-mastectomy breast cancer survivors at Princess Margaret Hospital: A clothing design project. Poster presentation at the Annual meeting of the Canadian Association of Psychosocial Oncology. Toronto. 2011

Designing and Evaluating Illustrated Books about Testicular Cancer and Testicular Self-examination: Nothing Comic About It! Poster presentation at the Annual Meeting of the Canadian Association of Psychosocial Oncology. Toronto. 2011

Development of an Experiential Elective in Spirituality for Preclerkship Undergraduate Medical Students: A pilot project. 9<sup>th</sup> Annual Education Achievement Celebration, University of Toronto, Faculty of Medicine. Toronto. 2011

Gay Men Confront Prostate Cancer: Development of an Evidence-Based Experiential Narrative DVD Resource. Poster presentation at the Annual Meeting of the Canadian Association of Psychosocial Oncology. Toronto. 2011

Growing up with hemophilia: An assessment of teens' perceived needs prior to transition. 24<sup>th</sup> Annual Meeting of the American Society of Pediatric Hematology Oncology, Baltimore, USA. 2011

Investigating how patient self-efficacy affects satisfaction with care among adult oncology patients. University of Toronto Medical Student Research Day. Toronto. 2011

Logic Never Tires: Use of a Logic Model for the Development of a Cancer-Related Fatigue Clinic at Princess Margaret Hospital. Poster presentation at the Annual meeting of the Canadian Association of Psychosocial Oncology, Toronto. 2011

Peer to Peer Mentoring for Individuals with Early Inflammatory Arthritis. Peer Mentor Training. Canadian Association of Continuing Health Education (CACHE), Banff. 2011

Sweet dreams: Needs assessment and prototype design of post-mastectomy sleepwear. Include 2011: The Role of Inclusive Design in Making Social Innovation Happen. Helen Hamlyn Centre, Royal College of Art, London, UK. 2011

Towards an enriching educational experience in spirituality: investigating medical student attitudes on spirituality in health care. 9<sup>th</sup> Annual Education Achievement Celebration, University of Toronto, Faculty of Medicine. Toronto. 2011

Using meta-ethnography to develop a conceptual model on the perceived impact and experience of participating in peer support interventions. 9th Annual Canadian Cochrane Symposium. Vancouver. 2011

### **Osmar, Kari**

Electronic clinical documentation: Interprofessional collaboration in the creation and standardization of patient assessment and documentation for radiation therapy. Poster IPE/IPC Conference Sunnybrook Health Science Centre, Toronto. 2010

Electronic clinical documentation: Interprofessional collaboration in the creation and standardization of patient assessment and documentation for radiation therapy. RTi3, Toronto. 2011

**O'Sullivan, Brian**

Hong Kong Head and Neck Group and "Area of Excellence" Visiting Professor, University of Hong Kong, Hong Kong, China. 2010

Enigmas and challenges in the diagnosis and treatment of HPV-related oropharyngeal cancer. 29<sup>th</sup> Annual Meeting of the European Society of Therapeutic Oncology (ESTRO), Barcelona, Spain. 2010

Taxonomy and Application of Cancer classifications. Session: Staging and Prognosis in Cancer, UICC World Cancer Congress, Shenzhen, China. 2010

New developments in the role of radiation for soft tissue sarcoma. Western Canadian Sarcoma Conference, Vancouver. 2010

Radiation therapy for fibromatosis. Western Canadian Sarcoma Conference, Vancouver. 2010

Quality Control and Audit for Management of Head and Neck Cancers. Hong Kong Nasopharyngeal Cancer Study Group Training Seminar, Hong Kong, SAR China. 2010

An Update on Clinical Treatment of NPC. The Areas of Excellence Scheme Research Symposium, The Center for Nasopharyngeal Carcinoma Research, The University of Hong Kong, Hong Kong, SAR China. 2010

The NPC TNM stage classification of the UICC (and AJCC): Historical, Current, and Future Perspectives. 6th Chinese National Conference on Nasopharyngeal Cancer, Asia-Pacific Nasopharyngeal Cancer Congress, Fuzhou, China. 2010

Ontario Head and Neck IMRT Guidelines. Presentation to the Cancer Care Ontario Head and Neck Community of Practice, CCO Offices, Toronto. 2010

A model for a Provincial Prospective Outcomes Database. Presentation to the Cancer Care Ontario Head and Neck Community of Practice, CCO Offices, Toronto. 2010

Esthesioneuroblastoma Management: Role of Radiotherapy. 21st Annual Meeting, North American Skull Base Society, Scottsdale, USA. 2011

Management of Skull Base Paraganglioma with Radiation therapy. 21st Annual Meeting, North American Skull Base Society, Scottsdale, USA. 2011

Primer on the current role of radiotherapy in the treatment of desmoids tumours. 2011 Annual Meeting, Canadian Society of Surgical Oncology, Toronto. 2011

How should we manage patients with loco-regionally advanced head and neck cancer who are not suitable for chemo-radiotherapy? 2011 Annual Meeting, European Society for Therapeutic Radiology and Oncology (ESTRO), London, United Kingdom. 2011

The current state of physical/spatial and molecular targeting in the treatment of nasopharyngeal



carcinoma. 5<sup>th</sup> International Symposium on Nasopharyngeal Carcinoma, Penang, Malaysia. 2011

**Palmer, C**

Making it happen: Facilitating changes in practice and technology Radiotherapy in Practice 5/Advanced Practice 2. Toronto. 2010

**Pignol, JP**

Accelerating partial breast radiation: How fast can we go? Toronto Breast Cancer Symposium, Toronto. 2010

Accelerated partial breast irradiation using permanent seed implants. Rhode Island Hospital, Providence, USA. 2010

Targeted nanoparticle radiosensitization - How can we make it work? Invited symposium speaker at ESTRO 29, Barcelona, Spain. 2010

Targeted nanoparticle radiosensitization - How can we make it work? Invited communication at CARO 24<sup>th</sup> annual scientific meeting. September 22<sup>nd</sup> – 25<sup>th</sup>. Vancouver. 2010

**Poon, Ian**

Treatment Response Monitoring with Positron Emission Tomography in Solid Tumours: Is this The Future of Radiation Oncology. Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting. Vancouver. 2010

**Purdie, Tom**

IMRT Clinical Trial in Ontario – Automated Breast IMRT. IMRT Insights: Transforming Practice Through Collaboration Meeting. Toronto. 2010

Automated Tangential Breast IMRT. Juravinski Cancer Centre, Hamilton. 2011

**Rakovitch, Eileen**

A Population-Based Outcomes Analysis of Young Women Treated with Breast-Conserving Surgery and Radiation for DCIS Is There a Difference in Outcomes Among Commonly Used Fractionated Schemes? Canadian Association of Radiation Oncologists (CARO), Vancouver. 2010

Long Term Side Effects Cosmetic Outcomes and Local Control Following Permanent Breast Seed Implants. Canadian Association of Radiation Oncologists (CARO), Vancouver. 2010

Radiation Therapy Session Chair. Toronto Breast Cancer Symposium 2010. The Westin Harbour Castle, Toronto. 2010

Restructuring Clinical Trials: Challenges and Opportunities. 5<sup>th</sup> Annual Cancer Research Day. Odette Cancer Centre, Toronto. 2010

Risk of Diabetes with Tamoxifen Therapy Among Older Breast Cancer Survivors”. American Diabetes Association Meeting, San Diego, USA. 2011

**Rosewall, Tara**

The effect of delineation method and interobserver variability on “bladder” cumulative dose-volume

histograms (DVH). Target Insights, Toronto. 2011

**Rowlands, John**

Co-Organizer of 10th ECS TFT symposium and speaker TFT x-ray imagers. Las Vegas, USA. 2010

Design and Performance Evaluation of Detector Modules for Positron Emission Mammography Imagers. Oral presentation at COMP 2010, Finalist in the J.R. Cunningham Young Investigator Symposium. Ottawa. 2010

Effect of scintillator crystal geometry and surface finishing on depth of interaction resolution in PET detectors: Monte Carlo simulation and experimental results using silicon photomultipliers. oral presentation, SPIE Physics of Medical Imaging Conference, San Diego, USA. 2010

Positron Emission Mammography: Optimizing the Ratio of the Number of Scintillation Crystals to Photo detectors for Maximal Depth of Interaction Resolution. poster presentation at Terry Fox Research Institute, Vancouver. 2010

**Sahgal, Arjun**

Acoustic Neuroma and Radiation: Technology and Options. Acoustic Neuroma Society of Canada: 26th Annual Meeting. Niagara Falls. 2010

Brain Cancer: Primary Gliomas, Princess Margaret Hospital: Patient and survivorship Education Lunch and Learn Session, Toronto. 2010

Brain metastases and neurocognition. International symposium on long-term control of secondary central nervous system malignancies. Cleveland, USA. 2010

Critical remarks on spine radiosurgery. The Leksell Gamma Knife Society 15th Annual Meeting, Athens, Greece. 2010

Prescription dose guidelines based on physical criterion for multiple metastatic brain tumors treated with stereotactic radiosurgery. 15th International Meeting of the Leksell Gamma Knife Society. Athens, Greece. 2010

Radiation Oncology Research Day. University of Toronto, Toronto. 2010

Spine Metastases. 10th Princess Margaret Hospital Conference. Toronto. 2010

Spine Radiosurgery. IMRT Insights: transforming practice through collaboration. Target Insights IV, Cancer Care Ontario. Toronto. 2010

Spine SBRT and Minimal Access Spine Surgery. PMH Innovation Rounds. University of Toronto, Toronto. 2010

Spine stereotactic body radiotherapy: A high dose approach for radioresistant tumors Odette Cancer Centre, Sunnybrook Health Sciences Centre Melanoma Rounds. University of Toronto, Toronto. 2010

Stereotactic body radiotherapy for spine metastases and spinal cord tolerance. Mayo Clinic, University of Rochester. Rochester, USA. 2010

Stereotactic body radiotherapy for spine metastases and spinal cord tolerance. London Regional Cancer Center, University of Western Ontario, London. 2010

Stereotactic radiosurgery for brain metastases and neurocognition. University of Toronto division of neurosurgery 2010 William S. Keiths lectureship day, University of Toronto, Toronto. 2010

The management of brain metastases. Odette Cancer Centre, Sunnybrook Health Sciences Centre Melanoma Rounds. University of Toronto, Toronto. 2010

The Management of Brain Metastases. Southlake Regional Cancer Centre Oncology Rounds. Newmarket. 2010

The Management of Malignant Epidural Spinal Cord Compression. Southlake Regional Cancer Centre Oncology Rounds. Newmarket. 2010

The treatment of paraspinal disease. Image-guided radiotherapy education course, Princess Margaret Hospital, University of Toronto, Toronto. 2010

Human re-irradiation spinal cord tolerance for spinal radiosurgery. 10th International Stereotactic Radiosurgery Congress. Paris, France. 2011

Image-guided spinal radiosurgery: patient setup and immobilization utilizing the hexapod and bodyfix systems. 10th International Stereotactic Radiosurgery Congress. Paris, France. 2011

Minimal access spine surgery for metastatic spinal tumors followed by stereotactic body radiotherapy. 10th International Stereotactic Radiosurgery Congress. Paris, France. 2011

The management of brain metastases in 2011. Department of Radiation Oncology, Rapid Response Palliative Program Rounds, University of Toronto, Toronto. 2011

The Role of Radiosurgery in Brain Metastases and an Introduction to Radiosurgery for Spine Metastases. Community Oncologists of Metropolitan Toronto. Toronto. 2011

Randomized trial of SBRT for spinal metastases. National Cancer Institute of Canada Clinical Trials Group Radiation Forum. Toronto. 2011

Spine Oncology Symposium: Spinal Tumors. The Eleventh Annual Scientific Conference of the Canadian Spine Society. Quebec City. 2011

Stereotactic body radiotherapy for high risk spinal metastases. National Cancer Institute of Canada Clinical Trials Group Symptom Control Committee. Toronto. 2011

### **Sharpe, Michael**

American Society for Radiation Oncology (ASTRO) Advances in Technology: Practical Aspects of IMRT, IGRT, SBRT Symposium, Dallas, USA. 2010

ESTRO Course in Adaptive Radiation Therapy, Barcelona, Spain. 2010

Review of Advanced Radiation Therapy, Medica Sur Hospital, Mexico City, Mexico. 2010

ESTRO School Course in Advanced Treatment Planning, Genoa, Italy. 2011

**Sheikh, Aisha**

Inservice: Accessibility for Ontarians with Disabilities Act. Odette Cancer Centre. Toronto. 2010

Office of Health Professions Student Affairs Orientation for MRS Class of 2012. TMI Auditorium. Toronto 2010

Dressings for Dummies – conducted hands-on refresher sessions for therapists on the types of wound dressings used for radiation-related side effects and how to change dressings. Part of the Clinical Skills Day Sessions at Odette Cancer Centre, Toronto. 2011

**Simeonov, Anna**

Practical approach to MR Spectroscopy. 20<sup>th</sup> Annual ISMRM Section for Magnetic Resonance Technologists (SMRT) Meeting, Montreal. 2011

**Sinclair, Emily**

Kyphoplasty v's Vertebroplasty for palliative bone metastases. ASRT, San Diego, USA. 2010

**Spayne, Jacqueline**

Radiation Therapy in the Management of Locally Advanced Breast Cancer. Southeast Asia LABC Working Group Meeting. Bangkok, Thailand. 2010

**Stanescu, Teo**

Towards MRI-guided radiation therapy. Princess Margaret Hospital, Toronto. 2010

**Stevens, Christian**

Post Mastectomy Radiotherapy and Breast Reconstruction. Georgian Bay Oncology Group Meeting, Barrie. 2010

Prostate Cancer. Barrie Emergency Services Health Awareness Evening, Barrie. 2010

The Ethics of Medical Error. Department of Radiation Oncology Quality Assurance Rounds, Odette Cancer Centre, Sunnybrook Health Sciences Centre, Toronto. 2010

To Screen or not to screen: Controversies in Prostate Cancer Screening. Royal Victoria Hospital Lunch and Learn Series, Barrie, Ontario. 2010

Prostate Cancer. Orillia Prostate Cancer Awareness Group, Orillia. 2011

Prostate Cancer. Harry Rosen Health Awareness Day, Toronto. 2011

**Sun, Alexander**

FDG-PET imaging for radiation therapy response monitoring in lung cancer. Canadian Association of Radiation Oncology (CARO) Annual meeting, Vancouver. 2010

**Szumacher, Ewa**

Collaborating Across Bridges: The Interprofessional Radiation Oncology Rounds as New Model of Continuing Education at the Sunnybrook Odette Cancer Centre. Interprofessional Education/Interprofessional Care (IPE/IPC) Showcase, Toronto. 2010

Informational needs of older women with stage I breast cancer – Needs assessment study. An International Association for Medical Education (AMEE), Glasgow, Scotland. 2010

Informational Needs of Older Women with Stage I Breast Cancer: Needs Assessment Study. Radiation Therapist Conference, Toronto. 2010

The informational needs of prostate cancer patients treated with radical prostatectomy regarding adjuvant or salvage radiotherapy DOCH 2 project. Wilson Centre Research Day, Toronto. 2010

The informational needs of prostate cancer patients treated with radical prostatectomy regarding adjuvant or salvage radiotherapy DOCH 2 project. 24<sup>th</sup> Annual Canadian Association Radiation Oncology (CARO) Scientific Meeting, Vancouver. 2010

What are my options for breast cancer treatment? Wilson Centre Research Day, Toronto. 2010

What are my options for breast cancer treatment? 24<sup>th</sup> Annual Canadian Association Radiation Oncology (CARO) Scientific Meeting, Vancouver. 2010

Chair of the oral presentation session at the 1<sup>st</sup> International Faculty Development in Health Professions Conference, Toronto. 2011

Development of a Decision Aid and 1<sup>st</sup> Impressions: A Pilot Study for Older women with stage I hormone-sensitive breast cancer. 8<sup>th</sup> Annual Radiation Therapy Conference Inquire Inspire Innovate (RTi3), Toronto. 2011

Development of a Patient Decision Aid for Women 70 years and Older with Stage I, Hormonally Sensitive, Breast Cancer Considering Adjuvant Treatment Post-lumpectomy" 25<sup>th</sup> Annual Canadian Association Radiation Oncology (CARO) Scientific Meeting, Winnipeg. 2011

Development of a patient decision aid for women with stage I breast cancer considering adjuvant treatment and post-lumpectomy. (AMEE). Vienna, Austria. 2011

Exploring the Meanings of Caring Among Health Care Professionals Providing Cancer Care the Second Sunnybrook Health Sciences IPE/IPC Showcase, Toronto. 2011

Fostering Scholarship in Medical Education in Cancer Care through Inter-Institutional Collaboration (Challenges and Opportunities). 8<sup>th</sup> Annual Radiation Therapy Conference Inquire Inspire Innovate (RTi3), Toronto. 2011

Informational Needs of Older Women with Stage I Breast Cancer: Needs Assessment Study. 8<sup>th</sup> Annual Radiation Therapy Conference Inquire Inspire Innovate (RTi3), Toronto. 2011

Tailored radiation therapy for older women with early stage breast cancer, BIT's 4<sup>th</sup> World Cancer Congress Breast Cancer Conference-2011, Guangzhou, China. 2011

Workshop Fostering Scholarship in Medical Education in Cancer Care through Inter-Institutional Collaboration (Challenges and Opportunities). 25<sup>th</sup> Annual Canadian Association Radiation Oncology (CARO) Scientific Meeting, Winnipeg. 2011

**Thomas, Gillian**

Palliative radiotherapy for cervical cancer: a systematic review International Gynecologic Cancer Society (IGCS), Prague, Czech Republic. 2010

Should Management of Locally Advanced Adenocarcinoma and Squamous Cell Carcinoma (with nodal spread) be similar? European Society for Therapeutic Radiology and Oncology (ESTRO), Barcelona, Spain. 2010

Cervical Cancer: Optimizing use of Constrained Resources, SGO International Symposium, Florida, USA. 2011

**Tsang, Richard**

Efficacy and morbidity of moderate dose radiation therapy for stage IE orbital MALT lymphoma. 2010 CSTRO/SANTRO Joint Symposium and Meeting, Hangzhou, China. 2010

Educational Session #410: Indolent (low-grade) lymphoma: Update on radiation therapy management. 2010 Annual Meeting of the American Society for Therapeutic Radiology and Oncology, San Diego, USA. 2010

**Tsao, May**

International perspectives on palliative care-updates from the third international conference on metastases. ASTRO 2010 Annual Meeting, San Diego, USA. 2010

Upcoming ASTRO guidelines: a focus on palliative care. ASTRO 2010 Annual Meeting, San Diego, USA. 2010

**Vesprini, Danny**

The biology of prostate cancer. Orillia Prostate Cancer Awareness Night. Orillia. 2010

**Vines, Doug**

PET/CT in Oncology: from man to mouse, there and back again. Society of Nuclear Medicine 57<sup>th</sup> Annual Meeting (Technologist Section), Salt Lake City, USA. 2010

Serial FDG PET-CT scans in oncology: A quality assurance study of repeatability of uptake times and blood glucose values. Society of Nuclear Medicine (SNM), 57<sup>th</sup> Annual Meeting, Salt Lake City, USA. 2010

**Warde, Pdraig**

What Does a Modern Radiation Treatment Look Like in 2010, Nova Scotia Cancer Centre, Halifax. 2010

Genitourinary Cancer Case Discussion – PROS Philippine Radiation Oncology Society, Bonifacio Global City, Philippines. 2011

**Wiljer, David**

Hardwired to Care: em-Powered for Progress? Health Services Research Seminars 2010-2011. Health Policy, Management and Evaluation, University of Toronto. Toronto,. 2010

Hardwired to Care: Impact of new technologies on patients, practitioners, and the public. Plenary session. 2010 International Cancer Education Conference. Joint Annual Meeting – AACE, CPEN, EACE. San Diego, California. 2010

Transformative Connections: Wired for Better Care? CICC Innovation Rounds, Centre for Innovation in Cpmplex Care, Toronto. 2010

“Foster the Partnership”. Canadian GU Cancers Survivorship Conference 2011.Keynote Address. King City. 2011

**Wong, Shun**

Changes in neural stem cell and progenitor cell populations in mouse brain after ionizing radiation. Canadian Association of Radiation Oncologist, Annual Scientific Meeting, Vancouver. 2010

Differential apoptosis radiosensitivity of neural progenitors after ionizing radiation. Society for Neuroscience, 40<sup>th</sup> Annual Meeting, San Diego, USA. 2010

Endothelial cells modulate apoptosis of neural progenitors after genotoxic stress. Society for Neuroscience, 40<sup>th</sup> Annual Meeting, San Diego, USA. 2010

**Woo, Milton**

Promoting Remote Real-time Education in Medical Physics.10th Asia-Oceania Congress of Medical Physics, Taipei, Taiwan. 2010

**Wouters, Bradly**

Addressing the Challenges of Tumor Heterogeneity, RMP Grand Rounds, Department of Radiation Oncology, University of Toronto / Radiation Medicine Program, Princess Margaret Hospital, Toronto. 2010

Addressing the Challenges of Tumor Heterogeneity, Sunnybrook Health Sciences, Radiation Oncology Research Grand Rounds, Toronto. 2010

Grantmanship - Interactive Educational Breakout Session, 2010 Scholars in Training (SIT) Workshop, 56<sup>th</sup> Annual Meeting of the Radiation Research Society (RRS), Maui, USA. 2010

Hypoxia and metabolism as potential targets, 9th meeting of the European Association for Neurooncology (EANO), Maastricht, The Netherlands. 2010

Mechanisms of adaptation to hypoxia and their relevance in cancer, ESTRO 29, Annual Meeting, European Society for Therapeutic Radiology and Oncology, Barcelona, Spain. 2010

Regulation of autophagy during hypoxia by the unfolded protein response, ESTRO 3rd Annual Symposium, Novel targeting drugs and Radiotherapy from Bench to Clinic, Plenary speaker, Toulouse, France. 2010

Targeting autophagy sensitizes tumours to irradiation by reducing hypoxia, ESTRO 29, Annual Meeting, European Society for Therapeutic Radiology and Oncology, Barcelona, Spain. 2010

Targeting Autophagy Sensitizes Tumours to Irradiation by Reducing Hypoxia, 52nd Annual Meeting, American Society for Radiation Oncology (ASTRO), San Diego, USA. 2010

Targeting Pathways of Hypoxia Tolerance, 56<sup>th</sup> Annual Meeting of the Radiation Research Society (RRS), Maui, USA. 2010

The Importance of Tumor Heterogeneity, Department of Medical Biophysics Annual Retreat, Geneva Park. 2010

The Influence of hypoxia on the epigenome, CERRO 26th Working Party on Clinical and Experimental Research in Radiation Oncology, Le Menuires, France. 2010

The two sides of mTOR inhibition, ESTRO 29, Annual Meeting, European Society for Therapeutic Radiology and Oncology, Barcelona, Spain. 2010

**Yeboah, Collins**

Leakage radiation from electron applicators. Department of Medical Physics, Odette Cancer Centre, Toronto. 2011

**Yeung, Ivan**

Emerging Technology in Radiation Therapy. Cancer Support Group in Richmond Hill Christian Community Church, Richmond Hill. 2010

**Zhang, Beibei**

Volumetric Modulated Arc Therapy for Prostate Radiotherapy. American Society for Therapeutic Radiology and Oncology annual meeting, Boston, USA. 2010



## **Awards 2010-2011**

### **UT DRO Faculty Education Awards**

#### **Vanessa Barisic**

- MRS Clinical Supervision Award, Department of Radiation Oncology, University of Toronto

#### **Lisa Di Prospero**

- MRS Research Supervision Award, Department of Radiation Oncology, University of Toronto

#### **Marta Evans**

- MRS Classroom Teacher Award, Department of Radiation Oncology, University of Toronto

#### **Nicole Harnett**

- CME Award, Department of Radiation Oncology, University of Toronto

#### **Mandy Kohli**

- MRS Clinical Supervision Award, Department of Radiation Oncology, University of Toronto

#### **Kathy Mah**

- MRS Guest Lecturer Award, Department of Radiation Oncology, University of Toronto

#### **Michael Milosevic**

- Postgraduate Mentorship Award, Department of Radiation Oncology, University of Toronto

### **UT DRO Research Awards**

#### **Lisa Barbera**

- Best Annual Research Performance Award, Department of Radiation Oncology, University of Toronto

#### **Stanley Liu**

- Outstanding Research Potential Award, Department of Radiation Oncology, University of Toronto

#### **Padraig Warde**

- Sustained Excellence in Research Award, Department of Radiation Oncology, University of Toronto

#### **Bradly Wouters**

- Research Leadership Award, Department of Radiation Oncology, University of Toronto

## **Other Awards and Honours**

### **Barbera, Lisa**

- Academic Performance Award, Department of Radiation Oncology, Odette Cancer Centre, 2010

### **Bezjak, Andrea**

- Research Leadership Award, Radiation Medicine Program Research Awards, Princess Margaret Hospital, 2010
- Research Productivity Award, Radiation Medicine Program Research Awards, Princess Margaret Hospital, 2010

### **Brock, Kristy**

- Radiation Physics Research Productivity Award, Radiation Medicine Program, Princess Margaret Hospital, 2010

### **Cashell, Angela**

- CAMRT E.I. Hood Award, 2010

### **Catton, Pam**

- Mentorship Award, Radiation Medicine Program, 2010
- NCI-CPEN Cancer Patient Education Network, Excellence in Cancer Patient Education, Maximizing Your Patient Education Skills Course, 2010
- University of Toronto Dave Davis CEPD Research Award, Maximizing Your Patient Education Skills Course, 2010

### **Cho, John**

- Gerald Kirsh Humanitarian Award Nominee, 2010

### **Chow, Edward**

- Outstanding Leadership Award, Ontario Palliative Care Association

### **Chung, Caroline**

- Chair's Award, Department of Radiation Oncology, University of Toronto, 2010
- Clinician Investigator Program Best Oral Presentation, University of British Columbia, 2010

### **Chung, Hans**

- Postgraduate Classroom Teaching Award, Department of Radiation Oncology, University of Toronto, 2010

### **Coolens, Catherine**

- 'Best of Physics' abstract, 52<sup>nd</sup> ASTRO Annual Meeting, 2010

### **Cummings, Bernard**

- Gold Medal, American Society for Therapeutic Radiology and Oncology, 2011

**D'Souza, Neil**

- Speaker Competition Winner, Canadian Association of Medical Radiation Technologists (CAMRT) 2<sup>nd</sup> Annual Speaker Competition – American Society of Radiologic Technologists (ASRT) Radiation Therapist Conference, 2011
- Sunnybrook Volunteers Association Award, Sunnybrook Health Sciences Centre (SHSC), 2010

**Feuz, Carina**

- CAMRT Certificate of Merit- E.I. Hood Award (Essay Competition), 2010
- Radiation Medicine Program Clinical Teaching Award, Princess Margaret Hospital, 2011

**Gillian, Caitlin**

- Exceptional Treatment Unit Team (awarded by MRS students), University of Toronto, 2011

**Hill, Richard**

- Outstanding Research Award , 12<sup>th</sup> International Tumor Microenvironment Workshop, 2010
- Award for Excellence, International Conference on Radiation Biology, Nanotechnology, Imaging, Stem Cell Research and Radiation Oncology, 2010
- Henry S. Kaplan Distinguished Scientist Award, 2011

**Holden, Lori**

- Outstanding Leadership Award for RRRP, Ontario Palliative Care Association, 2010
- Schulich Award for Nursing and Clinical Excellence, Sunnybrook Health Sciences Centre, 2010

**Huang, Sophie**

- Multidisciplinary Head and Neck Cancer Symposium Abstract Award, 2010
- ESTRO Best Poster Award (clinical), 2011

**Jaffray, David**

- John S. Laughlin Lectureship, Memorial Sloan-Kettering Cancer Center, 2010
- James A. Purdy Lectureship, Washington University, 2011

**Kim, John**

- Mentorship Award, Radiation Medicine Program, Princess Margaret Hospital, 2011
- Clinical Teaching Award, Radiation Medicine Program, Princess Margaret Hospital, 2011

**Morton, Gerald**

- Best Guest Lecture, Medical Radiation Sciences Program, University of Toronto, 2010

**Rakovitch, Eileen**

- Campbell Chair in Breast Cancer Research

**Rosewall, Tara**

- Research Productivity Award. Radiation Medicine Program, Princess Margaret Hospital, 2010
- Research Leadership Award. Department of Radiation Oncology, University of Toronto, 2010

**Sahgal, Arjun**

- Best Abstract in Radiation/Medical Physics, Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, 2010

- Post-Graduate Mentorship Award, Department of Radiation Oncology, University of Toronto, 2010

**Tan, Kieng (with Flanagan, Wendy)**

- Philips Award, CAMRT

**Vines, Doug**

- Nuclear Oncology Council Best Technologist Abstract Award, Society of Nuclear 57<sup>th</sup> Annual Meeting, 2010
- Second Place Prize for a Technologist Oral paper, Society of Nuclear Medicine 57<sup>th</sup> Annual, 2010

**Vitkin, Alex**

- Site Visitor Credential, Dutch Health R & D Council ZonMw, 2010

**Wiljer, David**

- AACE R. Davilene Carter Presidential Prize for Best Paper (1st Place), 2010
- Best Poster by Experienced Researcher, UHN Allied Health Research Day, 2011

**Wong, Rebecca**

- Research Innovation Award, Princess Margaret Hospital

**Wouters, Bradley**

- ESTRO Klaas Breur Award, Annual Gold Medal Award Lecture, 2010

**Trainee and Graduate Student Awards and Honours**

**Dr. Kristopher Dennis**

- CIHR Fellowship Award for Clinical Research, \$110,000

**Dr. Meredith Giuliani**

- Best Poster Award by a Postgraduate Trainee, University of Toronto Department of Radiation Oncology, 2011
- Ellen Epstein Rykov Memorial Prize for excellence in postgraduate research, University of Toronto, supervisor Dr. Andrew Hope
- Timeposters Fellowship for excellence in postgraduate research, University of Toronto, supervisor Dr. Andrew Hope
- Joseph M. West Family Memorial Fund for excellence in postgraduate research, University of Toronto, supervisor Dr. Andrew Hope
- OICR Fellowship Grant for 13th Joint ECCO-AACR-EORTC-ESMO Workshop 'Methods in Clinical Cancer Research, Waldhaus Flims, Switzerland, supervisor Dr. John Kim and John Waldron

**Dr. Sharlyn Kang**

- R.S. Bush Award for Academic Excellence by a Radiation Oncology Fellow, University of Toronto Department of Radiation Oncology, 2011

**Dr. Eric Leung**

- W.J. Simpson Award for Academic Excellence in Research by a Radiation Oncology Resident, University of Toronto Department of Radiation Oncology, 2011

**Dr. Karen Lim**

- IMS Whiteside Award for her MSc Thesis dissertation.

**Mr. Michael Velec**

- Academic Excellence in Research by a Radiation Therapy Graduate Student, University of Toronto Department of Radiation Oncology, 2011

**Dr. Lorraine Walsh**

- Chief's Choice Chair's Award for Academic Excellence in Research by a Postgraduate Trainee, University of Toronto Department of Radiation Oncology, 2011

**Dr. Philip Wong**

- 2011 ASCO Young Investigator Award.

**Dr. Matt Wronski**

- J.R. Cunningham Award for Academic Excellence in Research by a Physics Resident, University of Toronto Department of Radiation Oncology, 2011

**Research Day – May 7, 2011**

**Oral Presentations**

**Zishan Allibhai, Radiation Oncology Fellow**

Impact of tumour size and volume on outcomes following stereotactic body radiation therapy for early-stage non-small-cell-lung cancer

**Supervisors:** J. Cho, A. Bezjak

**John Bracken, Physics Resident**

Volumetric 4D computer tomography with 320-detector row scanner for radiotherapy simulation

**Supervisor:** C. Coolens, D. Jaffray

**Tatiana Conrad, Radiation Oncology Resident**

Active breath control to reduce normal tissue dose in patients receiving mediastinal radiotherapy for Hodgskin lymphoma

**Supervisor:** D. Hodgson

**Kathy Han, Radiation Oncology Resident**

Prospective evaluation of IMRT for anal and perianal cancer

**Supervisor:** J. Kim

**Meredith Johnston, Radiation Oncology Fellow**

Salivary duct carcinoma: Treatment, outcomes and clinico-pathological review

**Supervisor:** J. Kim

**Sharlyn Kang, Radiation Oncology Fellow**

Patterns of practice, outcomes and selection of treatment modalities for patients with localized esophageal (E) and gastroesophageal junction (GEJ) cancer

**Supervisor:** R. Wong

**Eric Leung, Radiation Oncology Resident**

Targeting tumour metabolism through HIF-1 inhibition enhances radiation response in cervix and head and neck xenograft tumours

**Supervisors:** M. Milosevic, R. Hill, B. Wilson

**Gary Mok, Radiation Oncology Fellow**

A comparison of conventional and hypofractionated radiotherapy schedules in the treatment of localized prostate cancer

**Supervisor:** C. Catton

**Nichola Naidoo, Radiation Oncology Fellow**

The role of specialized palliative radiotherapy (RT) programs – a decade of the palliative radiation oncology (PROP) experience at PMH

**Supervisor:** R. Wong

**Julia Skliarenko, Radiation Oncology Resident**

Evaluation of set-up reproducibility with and without customized vacuum immobilization device in rectal cancer patients treated with preoperative pelvic radiation therapy

**Supervisors:** J. Kim, T. Craig

**Albert Tong, Radiation Oncology Fellow**

Outcomes for T2N0M0 glottic squamous cell carcinoma treated with IMRT compared with conventional parallel opposed fields

**Supervisor:** J. Waldron

**Michael Velec, IMS MSc Student**

Impact and implementation guidelines for liver SBRT delivery with deformable registration and dose accumulation

**Supervisor:** K. Brock

**Francine Voncken, Visiting Resident**

Degree of tumor shrinkage following neoadjuvant chemoradiotherapy: A potential predictor for complete pathological response in esophageal cancer

**Supervisor:** R. Wong

**Lorraine Walsh, Radiation Oncology Fellow**

Patterns of fatigue, serum cytokines, and hematopoietic stem cells during breast cancer radiotherapy

**Supervisor:** F-F Liu

**Matt Wronski, Physics Resident**

Dose to implantable cardiac device from cone beam CT

**Supervisor:** G. Pang

**Poster Presentations**

**Eman AlDuhaiby, Radiation Oncology Resident**

A national survey of the availability of intensity-modulated radiation therapy and stereotactic radiosurgery in Canada

**Supervisor:** D. Hodgson

**Amanda Caissie, Radiation Oncology Resident**

Code Status Documentation: Everyone's Responsibility

**Supervisor:** C. Zimmerman

**Kristopher Dennis, Radiation Oncology Fellow**

International patterns of practice in the prophylaxis of radiation-induced nausea and vomiting (RINV)

**Supervisors:** E. Chow, M. Tsao, L. Holden, S. Wong

**Ali Fatemi-Ardekani, Physics Resident**

Identifying prostate brachytherapy seeds at MRI: A study in phantom

**Supervisor:** J. Borg

**Meredith Giuliani, Radiation Oncology Resident**

Correlation of dosimetric factors in the development of esophagitis and radiation pneumonitis in patients with limited stage small cell lung carcinoma

**Supervisors:** A. Hope, P. Lindsay

**Michael Lamey, Physics Resident**

Safety systems and failure modes and effects analysis for a linear accelerator – magnetic resonance imager- brachytherapy system

**Supervisor:** M. Carlone

**Claudia Leavens, Physics Resident**

Comparison of two NTCP models in terms of impact on the maximum prescription dose which can be prescribed in NSCLC dose escalation protocols

**Supervisors:** JP Bissonnette, D. Jaffray

**Marita Morgia, Radiation Oncology Fellow**

Dosimetric Changes During Daily MR-Guided Pulse-Dose-Rate Brachytherapy for Cervix Cancer

**Supervisors:** A. Fyles, M. Milosevic

**Hany Soliman, Radiation Oncology Fellow**

Stereotactic hypofractionated intensity modulated radiotherapy (SHIMIR) to the surgical cavity following resection of brain metastases

**Supervisor:** A. Sahgal

**Robert Weersink, Physics Resident**

The role of quantitative endoscopy in radiation therapy: Improved target delineation and radiation dose/PET signal display during endoscopy

**Supervisors:** S. Breen, D. Jaffray

**Philip Wong, Radiation Oncology Fellow**

Clinical outcomes of pelvic soft-tissue sarcomas treated with surgery and radiotherapy

**Supervisor:** C. Catton

**Huan Yu, Physics Resident**

Towards MR-only simulation: A QA phantom for coalescing consecutive MR scans of the head and neck

**Supervisor:** K. Mah