

CARO 2010

24th Annual Scientific Meeting

September 22 - September 25, 2010 | Vancouver, BC



in Radiation Oncology
and Physics

OBJECTIVES

The CARO 2010 Annual Scientific Meeting has been developed to provide an opportunity for participants to interact with colleagues and experts in the field of physics.

This meeting will allow participants to:

- describe the new trends and discovery in collaboration in Radiation Oncology and Physics;
- set the base of common goal and future collaboration in education and research in Radiation Oncology and Physics;
- better understand and articulate the role of the physicist and the radiation oncologist to promote high standard of care in radiation therapy;
- understand the impact of new technology on the workload and treatment access to radiation therapy programs; and
- understand the importance of collaboration between medical physics and clinicians for the education of residents in physics and radiation therapy.

ACCREDITATION

This event is an accredited group learning activity under Section 1, as defined by the Royal College of Physicians and Surgeons of Canada for the maintenance of certification program.

Applications for accreditation are approved for the following:

- Canadian Association of Medical Radiation Technologist - awarded up to 24.5 credits
- Medical Dosimetrist Certification Board - awarded up to 24.5 credits
- University of British Columbia - awarded up to 22.5 credits

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William MacKillop	
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Jean-Philippe Pignol	
Ervin Podgorsak	
Ian Poon	
Mark Rivard	
George Rodrigues	

THE PRESIDENT

MATTHEW PARLIAMENT

Dear Colleagues

Welcome to Vancouver and the 24th Annual Scientific Meeting of the Canadian Association of Radiation Oncology! The theme of this year's meeting is *Research, Discovery, Collaboration and Education in Radiation Oncology and Physics*. The use of advanced technology to detect, target, and treat cancer is a fundamental aspect of our clinical practice, and Canadian Radiation Oncologists, alongside their colleagues in Medical Physics and Radiation Therapy, are world leaders in the development of new knowledge to deliver therapeutic radiation more precisely, sparing adjacent normal tissues and improving quality of life for increasing numbers of survivors. Canadians are leading the way as well in promoting awareness of the technical and structural standards required to ensure comprehensive quality and safety for patients being treated in our facilities. The meeting will also highlight the successes that effective teamwork and collaboration between Radiation Oncology and Medical Physics has fostered in integration of exquisitely detailed imaging — both anatomic and functional — into the treatment planning armamentarium.

Eric Vigneault, Christina Parsons and the ASM Program Committee have developed an exciting agenda that should interest everyone. There will be a pre-conference theme symposium on Wednesday, September 22 that will explore functional imaging in radiation oncology, the future of education in cancer-related medical physics, and the newest revolutionary development of electronic brachytherapy through keynote lectures, review seminars, lively debates and scientific paper sessions. The Canadian Brachytherapy Group (CBG) will host a parallel pre-conference symposium on the same day, and the popular Residents' Refresher Course will continue as in previous years.

The general meeting will follow beginning on Thursday, with a variety of symposia and workshops and over 200 scientific podium and poster presentations. I am particularly proud to highlight the addresses slated by two acclaimed speakers: the CARO Lecture by the distinguished physicist Dr. Ervin Podgorsak of McGill University, and the Gordon Richards Lecture by our eminent past CARO President, Dr. Mary Gospodarowicz of the University of Toronto.

The Welcome Reception will be held Thursday evening at the spectacular Pan-Pacific Hotel on Vancouver's downtown waterfront. Please note that the Annual CARO Dinner will be held this year on Friday night at the elegant Terminal City Club on West Hastings Street. Also new this year, the CARO 2010 Awards Ceremony and Closing Reception will be held on Saturday afternoon at the completion of the conference.

Welcome once again to Vancouver! I hope that you enjoy the opportunities provided by this outstanding venue and that your meeting experience will be stimulating and fun!



Matthew Parliament
President, Canadian Association of Radiation Oncology (CARO)



LETTER FROM

CHAIR ASM PLANNING COMMITTEE

ERIC VIGNEAULT

Dear Colleagues

The Annual Scientific Committee has worked hard during the last few months finalizing the program for the 2010 CARO ASM. The participants will discover the importance of collaboration between physicists and physicians in radiation oncology research and education. They will also understand the crucial interaction between these two disciplines for the implementation of new technology in the clinic.

The preconference program on Wednesday is quite full this year with the annual Resident Refresher Course, the annual Canadian Brachytherapy Group meeting and a Medical Physics Symposium.

Dr. Ervin Podgorsak is the 2010 CARO Lecturer and will present vignettes from his academic career in medical physics on Thursday. Dr. Mary Gospodarowicz is the 2010 Gordon Richards Lecturer and she will share with us her leadership experience in her brilliant career in radiation oncology on Saturday followed by a special lecture – The Finbarr (Barry) Sheehan Lecture delivered by Dr. Sheldon Solomon, a psychologist who explores the effects of the uniquely human awareness of death on individual and social behavior.

Once again, the scientific content in the oral and poster sessions is very high. The most popular abstracts will be presented in the Resident Competition and the People's Choice Sessions along with four workshops and two refresher courses that will satisfy the interest and curiosity of everyone.

Finally, for the first time the CARO ASM is proud to present a joint ESTRO-CARO Symposium with Dr. Jean-Philippe Pignol and Professor Markus Alber, as the Canadian and European champions respectively. This symposium will be repeated at the ESTRO meeting in Barcelona.

We look forward to seeing you in Vancouver!



Eric Vigneault



LETTER FROM

THE LOCAL ORGANIZERS

CHRISTINA PARSONS AND MIRA KEYES

Dear Colleagues

The Local Organizers are pleased to present the 2010 CARO meeting in Vancouver, Host City for the Vancouver 2010 Olympic and Paralympic Winter Games! Aside from the academic sessions, please take this opportunity to personally experience the Olympic venues from posing for a photo at the Olympic Cauldron, visiting the Inukshuk statue in English Bay, although the giant red mittens that it wore through the Olympics are gone, (check out eBay!!), to taking the new Millennium Line to the Richmond Oval, site of the short track speed skating events.

This year's meeting entitled: Research, Discovery, Collaboration and Education in Radiation Oncology and Physics promises to be both informative and interactive. This meeting highlights our close relationship with Medical Physics starting with the pre-conference symposium which includes lectures on functional imaging and brachytherapy. Other highlights include the CARO Lecture delivered by Dr. Ervin Podgorsak; the Gordon Richards Lecture presented by Dr. Mary Gospodarowicz; the Theme Symposium and the joint CARO-ESTRO symposium which will give practical information on implementation of new technology into the clinic.

Vancouver as the venue for CARO 2010 was envisioned by Dr. Barry Sheehan. Barry was a long-time friend and colleague, well known to many of us across the country. A special memorial lecture will be given by Dr. Sheldon Solomon a specialist in consciousness, and social behaviour.

You will notice that we have changed the schedule of lectures, award ceremony and social events in an effort to increase participation in the annual dinner. Please join us for the Welcome Reception at the Pan Pacific Hotel to view the north shore mountains...(weather permitting) on Thursday, the annual dinner at the Terminal City Club on Friday, where you will get another chance to view Vancouver scenery, ending with the CARO awards during the inaugural closing ceremony on Saturday.

While the mountains, ocean, wealth of outdoor activities may tempt you away from attending the meeting, CARO 2010 in Vancouver offers each of you the opportunity to meet old friends and collaborators and make new ones.

Looking forward to meeting all of you!



Christina Parsons and Mira Keyes



LETTRE DU

PRÉSIDENT MATTHEW PARLIAMENT

Cher collègue,

Je vous souhaite la bienvenue à Vancouver et au 24e congrès scientifique annuel de l'Association canadienne de radio-oncologie (ACRO). Cette année, le congrès est coiffé du thème de la recherche, de la découverte, de la collaboration et de l'éducation en radio-oncologie et en radiophysique. Le recours à la technologie de pointe pour détecter, localiser et traiter le cancer constitue un aspect fondamental de notre pratique clinique, et les radio-oncologues canadiens ainsi que leurs collègues des domaines de la physique médicale et de la radiothérapie sont des chefs de file mondiaux dans la production de nouvelles connaissances sur l'administration de la radiothérapie avec le souci d'épargner les tissus sains avoisinants et d'améliorer la qualité de vie des survivants de plus en plus nombreux. Les Canadiens occupent également le devant de la scène pour ce qui est de la promotion des normes techniques et structurales garantes de la qualité des services de santé que nous dispensons et de la sécurité des patients que nous soignons. Le congrès insistera en outre sur les retombées du travail d'équipe et de la collaboration entre la radio-oncologie et la physique médicale dans l'intégration de l'imagerie de haute précision, tant anatomique que fonctionnelle, à l'arsenal de planification thérapeutique.

Éric Vigneault, Christina Parsons et le comité du congrès nous ont préparé un programme captivant qui saura assurément piquer la curiosité de tout un chacun. Le symposium thématique du mercredi 22 septembre, veille du congrès, qui portera sur l'imagerie fonctionnelle en radio-oncologie, sur l'avenir de l'éducation en physique médicale, plus précisément en oncologie, et sur l'apparition récente de la curiethérapie électronique révolutionnaire, prendra la forme de conférences, de séminaires, de débats animés et d'exposés scientifiques. Le Groupe canadien de curiethérapie tiendra un symposium ce même jour, et le cours de perfectionnement des résidents sera également au rendez-vous comme par le passé.

Le congrès comme tel s'ouvrira le jeudi, et il sera rempli de symposiums, d'ateliers et de plus de 200 exposés et communications affichées scientifiques. Je suis particulièrement fier de la présence de deux conférenciers renommés : le Dr Ervin Podgorsak, éminent physicien de l'Université McGill qui prononcera la Conférence de l'ACRO, et la Dre Mary Gospodarowicz de l'Université de Toronto, ancienne présidente de l'Association, qui sera l'auteure de la Conférence Gordon-Richards.

La réception d'accueil prévue le jeudi se déroulera au magnifique hôtel Pan Pacific dans la zone de front de mer du centre-ville de Vancouver. Veuillez prendre note que le dîner annuel de l'ACRO se tiendra cette année le vendredi soir au élégant Terminal City Club ayant pignon sur la rue West Hastings. Autre nouveauté cette année, la cérémonie de remise des prix et la réception de clôture auront lieu le samedi après-midi.

Je suis ravi de vous savoir des nôtres. J'espère que vous profiterez de toutes les possibilités qu'offrent ce lieu exceptionnel et notre congrès qui se révélera à n'en pas douter enrichissant et agréable.



Mathew Parliament
Président, Association canadienne de radio-oncologie (ACRO)



LETTRE DU

PRÉSIDENT COMITÉ DE PLANIFICATION DU CONGRÈS ANNUEL

ERIC VIGNEAULT

Cher collègue,

Le comité du congrès scientifique n'a rien ménagé dans les derniers mois pour concevoir le programme du congrès scientifique annuel de l'Association. Les congressistes découvriront l'importance de la collaboration entre les physiciens et les médecins dans la recherche et l'éducation en radio-oncologie. Ils saisiront également toute la portée de l'interaction cruciale entre les deux disciplines dans la mise en application de la nouvelle technologie dans la pratique clinique.

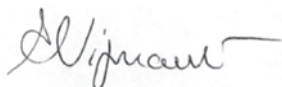
Le programme du mercredi, veille du congrès, englobe le cours de perfectionnement annuel des résidents, le symposium annuel du Groupe canadien de curiethérapie et un symposium sur la physique médicale.

Le Dr Ervin Podgorsak prononcera la Conférence de l'ACRO 2010; il présentera des vignettes de sa carrière en enseignement de la physique médicale le jeudi. Le samedi, la Dre Mary Gospodarowicz, auteure de la Conférence Gordon-Richards cette année, nous fera part de son expérience de direction au cours de sa brillante carrière en radio-oncologie. Suivra un exposé particulier du psychologue Sheldon Solomon, la Conférence Finbarr (Barry) Sheehan, qui portera sur les effets d'un attribut éminemment humain, la conscience de la mort, sur le comportement individuel et social.

Encore cette année, les exposés oraux et les communications affichées sont de très haut calibre scientifique. Que ce soit le concours des résidents ou les séances du choix populaire au cours desquels les résumés les plus prisés seront présentés, ou les quatre ateliers et les deux cours de perfectionnement, chacun est sûr d'y trouver son compte!

Enfin, l'Association présente pour la première fois à son congrès scientifique un symposium commun ESTRO-ACRO animé par le Dr Jean-Philippe Pignol et le professeur Markus Alber, respectivement porte-parole canadien et européen. Le symposium sera repris au congrès de l'ESTRO à Barcelone.

Il me tarde de vous voir à Vancouver!



Éric Vigneault

Président, comité de planification du congrès annuel



LETTRE DU

ORGANISATRICES

CHRISTINA PARSONS & MIRA KEYES

Cher collègue,

C'est avec joie que nous, les organisatrices locales, vous présentons le congrès 2010 de l'Association canadienne de radio-oncologie (ACRO) à Vancouver, ville hôte des Jeux olympiques et paralympiques d'hiver de 2010. Ne manquez pas cette occasion non seulement d'acquérir des connaissances scientifiques mais également de profiter de votre séjour pour vous faire photographier au site du chaudron olympique, de voir la statue inukshuk à la baie English même si elle ne porte plus ses mitaines rouges géantes (vous en trouverez sur eBay!) ou d'emprunter la Millennium Line pour vous rendre au Richmond Oval où ont eu lieu les épreuves de patinage de vitesse sur courte piste.

Le congrès de cette année sous le thème de la recherche, de la découverte, de la collaboration et de l'éducation en radio-oncologie et en radiophysique se révélera certes tout autant instructif qu'interactif. Il souligne les relations étroites entre la radio-oncologie et la physique médicale et ce, avant même de commencer officiellement, car la veille sera consacrée à un symposium sur l'imagerie fonctionnelle et la curiethérapie. Les conférences de l'ACRO et Gordon-Richards prononcées respectivement par les Drs Ervin Podgorsack et Mary Gospodarowicz, ainsi que le symposium principal et le symposium commun ACRO-ESTRO sur la mise en œuvre de la nouvelle technologie en pratique clinique comptent parmi les moments forts du congrès.

C'est le Dr Barry Sheehan, ami de longue date et collègue estimé de tous au pays, qui a eu l'idée de tenir le congrès de l'Association à Vancouver en 2010. Le Dr Sheldon Solomon, spécialiste de la conscience et du comportement social, présentera un exposé en hommage posthume à Barry.

Vous constaterez que l'horaire des conférences, de la cérémonie de remise des prix et des activités sociales est différent cette année. Nous l'avons modifié dans l'espoir d'accroître la participation au dîner annuel. Nous espérons que vous serez des nôtres à la réception d'accueil à l'hôtel Pan Pacific le jeudi pour ne pas rater entre autres la vue imprenable sur les montagnes, au dîner annuel au Terminal City Club le vendredi, où vous aurez de nouveau l'occasion d'admirer le paysage de Vancouver, ainsi qu'à la cérémonie de remise des prix et de clôture du congrès le samedi.

Les montagnes, l'océan, les multiples activités de plein air, la tentation de s'absenter du congrès sera grande nous en convenons, mais sachez y résister car le congrès sera riche de possibilités, ne serait-ce que celle de renouer avec de vieux amis et collaborateurs ou de rencontrer des collègues de tout le pays.

Nous sommes impatientes
de vous rencontrer bientôt!



Christina Parsons et Mira Keyes
Organisatrices



Wednesday September 22 2010

Preconference Events

7:15-4:00	CARO Resident Refresher Course <i>Regency A/B</i> Facilitator: Chandra Martens Objectives: Upon completion of this course, attendees will be able to: <ul style="list-style-type: none">■ understand the overall multidisciplinary management of lung cancer, breast cancer, anal cancer, and sarcoma■ understand the radiation therapy options currently available to patients with these cancers, including brachytherapy, 3D-conformal, and IMRT-based radiation therapy.
7:15-8:15	Breakfast and Registration
8:15-8:25	Welcome
8:25-9:14	CBG RESIDENT SCIENTIFIC PAPER COMPETITION Moderators: Gerard Morton, Juanita Crook
8:25-8:37	1 PILOT RANDOMIZED STUDY OF BICALUTAMIDE AND DUTASTERIDE VERSUS STANDARD REGIMEN FOR CYTOREDUCTION BEFORE PROSTATE BRACHYTHERAPY Marc Gaudet ¹ , Eric Vigneault ¹ , William Foster ¹ , François Meyer ¹ , Luc Beaulieu ² , André-Guy Martin ¹ ; ¹ Université Laval, Québec, QC
8:37-8:49	2 SYMPTOM CONTROL DURING HDR GYNECOLOGIC BRACHYTHERAPY Ericka Wiebe, Tammie Murray, Leanne Derrah, Kathleen Surry, Brian Yaremko, Alex Hammond, David D'Souza; London Regional Cancer Program, London, ON
8:49-9:01	3 CONSCIOUS SEDATION FOR HDR CERVIX CANCER BRACHYTHERAPY Hitesh Bhanabhai, Rajiv Samant, Choan E, Lucie Grenier, Sandra Lowry; University of Ottawa, Ottawa, ON
9:01-9:13	4 RECTAL AND BLADDER TOXICITY IN PATIENTS RECEIVING INTERSTITIAL BRACHYTHERAPY FOR LOCALLY ADVANCED GYNECOLOGIC MALIGNANCIES Ericka Wiebe, Kathleen Surry, David D'Souza; London Regional Cancer Program, London, ON
9:20-10:00	LUNG CANCER Carson Leong
10:00-10:20	Break
10:20-11:00	ANAL CANAL CANCER Devin Schellenberg
11:00-12:00	Keynote <i>Regency C</i> BRACHYTHERAPY TREATMENT PLANNING: WHERE ARE WE NOW, AND WHAT HURDLES DOES THE FUTURE HOLD? Mark Rivard
12:00-1:45	Lunch Refresher course continues <i>Regency A/B</i>
1:45-2:00	PHYSICIAN HEALTH GUIDE Chandra Martens
2:00-2:40	BREAST CANCER Pauline Truong
2:40-3:20	SARCOMA Charles Catton
3:20-4:00	Closing Remarks and Evaluation

7:15-5:00 **Canadian Brachytherapy Group** *Regency C*

Facilitators: Gerard Morton, Juanita Crook

Objectives: Upon completion of this symposium, attendees will be able to:

- describe ongoing brachytherapy research across Canada
- identify critical markers of quality in a prostate brachytherapy program
- compare and contrast prostate brachytherapy planning methods from across the country
- describe methods to reduce toxicity and improve efficacy of prostate brachytherapy.

7:15-8:15 Breakfast and Registration

8:15-8:25 Welcome

8:25-9:13 **CBG RESIDENT SCIENTIFIC PAPER COMPETITION** *Regency C*

Moderators: Gerard Morton, Juanita Crook

8:25-8:37 **1** **PILOT RANDOMIZED STUDY OF BICALUTAMIDE AND DUTASTERIDE VERSUS STANDARD REGIMEN FOR CYTOREDUCTION BEFORE PROSTATE BRACHYTHERAPY** Marc Gaudet¹, Eric Vigneault¹, William Foster¹, François Meyer¹, Luc Beaulieu², André-Guy Martin¹; ¹Université Laval, Québec, QC

8:37-8:49 **2** **SYMPTOM CONTROL DURING HDR GYNECOLOGIC BRACHYTHERAPY** Ericka Wiebe, Tammie Murray, Leanne Derrah, Kathleen Surry, Brian Yaremko, Alex Hammond, David D'Souza; London Regional Cancer Program, London, ON

8:49-9:01 **3** **CONSCIOUS SEDATION FOR HDR CERVIX CANCER BRACHYTHERAPY** Hitesh Bhanabhai, Rajiv Samant, Choan E, Lucie Grenier, Sandra Lowry; University of Ottawa, Ottawa, ON

9:01-9:13 **4** **RECTAL AND BLADDER TOXICITY IN PATIENTS RECEIVING INTERSTITIAL BRACHYTHERAPY FOR LOCALLY ADVANCED GYNECOLOGIC MALIGNANCIES** Ericka Wiebe, Kathleen Surry, David D'Souza; London Regional Cancer Program, London, ON

9:20-10:32 **SCIENTIFIC ABSTRACTS**

Moderator: Boris Bahoric

9:20-9:32 **5** **THE PSA VALUE AT 4-5 YEARS AFTER PERMANENT PROSTATE BRACHYTHERAPY PREDICTS FOR BIOCHEMICAL FAILURE FREE SURVIVAL** Amy J Hayden, James Morris, Mira Keyes, Vincent LaPointe, Michael McKenzie, Thomas Pickles, Ingrid Spadinger; Vancouver Cancer Centre, British Columbia Cancer Agency, Vancouver, BC

9:32-9:44 **6** **BRACHYTHERAPY WITH PERMANENT GOLD GRAIN SEEDS FOR SQUAMOUS CELL CARCINOMA OF THE LIP** Jeffrey Cao¹, David D'Souza², James Gilchrist², Alex Hammond², Scott Karnas², Craig Lewis², George Rodrigues², Varagur Venkatesan¹, Emily Whiston², Gary Yau², Edward Yu², Michael Lock²; ¹London Regional Cancer Centre, London, ON, ²University of Western Ontario, London, ON

9:44-9:56 **7** **QUALITY ASSURANCE OF PERMANENT BREAST SEED IMPLANT – WHAT HAVE WE LEARNT?** Jean-Philippe Pignol, Brian Keller, Ananth Ravi, Eli Lechtman, Shahram Mashouf; Sunnybrook Health Sciences Centre, University of Toronto, Toronto, ON

9:56-10:08 ACURA	8	HEALTH RELATED QUALITY OF LIFE FOLLOWING HIGH DOSE-RATE BRACHYTHERAPY BOOST FOR PROSTATE CANCER: DOSE TO URETHRA MATTERS Gerard Morton ¹ , Andrew Loblaw ¹ , Hans Chung ¹ , Andrea Deabreu ¹ , Liying Zhang ¹ , Patrick Cheung ¹ , Cyril Danjoux ¹ , Ewa Szumacher ¹ , Eric Vigneault ² , Colvin Springer ³ ; ¹ Odette Cancer Centre, University of Toronto, Toronto, ON, ² Université Laval, Québec, QC, ³ Windsor Regional Cancer Centre, Windsor, ON
10:08-10:20 ACURA	9	IMAGE GUIDED BRACHYTHERAPY: CORRELATION BETWEEN MRI SPECTROSCOPY AND PROSTATE SEXTANT BIOPSY Robert Apardian, Eric Chevette, Louis-Martin Girouard, Marie-Claude Lavalée, Andre-Guy Martin, Luc Beaulieu, Eric Vigneault; Université Laval, Québec, QC
10:20-10:32	10	ERECTILE FUNCTION FOLLOWING IODINE¹²⁵ PERMANENT PROSTATE BRACHYTHERAPY: 5 AND 8 YEAR RESULTS IN 1411 MEN Amy J. Hayden, Mira Keyes, Veronika Moravan, Michael McKenzie, Thomas Pickles, David Petrik, Ingrid Spadinger, Vincent LaPointe, W. James Morris; Vancouver Cancer Centre, British Columbia Cancer Agency, Vancouver, BC
10:32-11:00		Break
11:00-12:00		Keynote BRACHYTHERAPY TREATMENT PLANNING: WHERE ARE WE NOW, AND WHAT HURDLES DOES THE FUTURE HOLD? Mark Rivard
12:00-1:00		Lunch
1:00-3:00		MASTERCLASS Chair: Gerard Morton Objective: Upon completion of this masterclass, attendees will be able to: ■ explore advanced topics in permanent seed prostate brachytherapy ■ learn from national experts.
1:00-1:30		HOW TO MAINTAIN QUALITY IN A PROSTATE BRACHYTHERAPY PROGRAM Juanita Crook
1:30-2:00		TREATMENT RELATED MORBIDITY Mira Keyes
2:00-2:30		PLANNING ALGORITHMS AND APPROACHES Ron Sloboda
2:30-3:00		CRITICAL REVIEW OF EFFICACY Gerard Morton
3:00-3:30		Break
3:30-5:00		CANADIAN BRACHYTHERAPY GROUP ANNUAL GENERAL MEETING

7:10-4:15	Physics Preconference Workshop <i>Regency D</i>
	Facilitator: Luc Beaulieu Objectives: Upon completion of this workshop, attendees will be able to: <ul style="list-style-type: none">■ discuss the roles of anatomical and functional imaging in treatment planning, image guidance and follow-up■ discuss the pros and cons of electronic brachytherapy versus current standards■ discuss challenges, possible alternate approaches and future directions with regard to education in Medical Physics.
7:10-8:10	Registration and Breakfast
8:10-9:10	PET/CT IMAGING FOR BIOLOGICALLY GUIDED RADIATION THERAPY François Bénard Moderator: Jean-Pierre Bissonnette
9:10- 9:30	FDG-PET IMAGING FOR RADIATION THERAPY RESPONSE MONITORING IN LUNG CANCER Alexander Sun Moderator: Jean-Pierre Bissonnette
9:30-10:00	Break
10:00-11:00	SCIENTIFIC ABSTRACTS Moderator: François Bénard
10:00-10:12	11 SPECT-GUIDED INTENSITY-MODULATED RADIATION THERAPY FOR LUNG CANCER RADIOTHERAPY: A PROOF OF CONCEPT Lingshu Yin ¹ , Mitchell Liu ¹ , Jonn Wu ¹ , Alanah Bergman ² , Sergey Shcherbinin ³ , Anna Celler ³ , Cheryl Duzenli ¹ , Brad Gill ¹ , John Powe ⁴ , Daniel Worsley ⁴ , Vitali Moiseenko ³ ; ¹ Vancouver Cancer Centre, Vancouver, BC, ² British Columbia Cancer Agency Vancouver Island Centre, Victoria, BC, ³ University of British Columbia, Vancouver, BC, ⁴ Vancouver General Hospital, Vancouver, BC
10:12-10:24	12 MEASUREMENT OF RADIATION-INDUCED LUNG DAMAGE USING CT DENSITY CHANGES AND A DEFORMABLE REGISTRATION TECHNIQUE David Palma, John van Sornsen de Koste, Wilko Verbakel, Suresh Senan; VU University Medical Centre, Amsterdam, Netherlands
10:24-10:36	13 A RETROSPECTIVE ANALYSIS OF PROSTATE CBCT IMAGE REGISTRATION: A TALE OF TWO TECHNIQUES Brian Liszewski, Enoch Choo, Laura D'Alimonte; University of Toronto, Toronto, ON
10:36-10:48	14 OPTIMIZATION OF KV-CBCT SCAN PROTOCOLS TO REDUCE DAILY IMAGING DOSE FOR HEAD AND NECK PATIENTS Angela Turner, Philip Au, Geordie Pang; University of Toronto, Toronto, ON
10:48-11:00	Break
11:00-12:00	Keynote <i>Regency C</i> BRACHYTHERAPY TREATMENT PLANNING: WHERE ARE WE NOW, AND WHAT HURDLES DOES THE FUTURE HOLD? Mark Rivard
12:00-1:00	Lunch
1:00-2:00	SUMMARY OF AAPM SUMMER SCHOOL ON MEDICAL PHYSICS EDUCATION William Hendee Moderator: Ervin Podgorsak
2:00-3:00	PHYSICS EDUCATION DEBATES Moderator: William Hendee
2:00-2:20	TEACHING MEDICAL PHYSICS TO RADIATION ONCOLOGY RESIDENTS POLL: INTRODUCTORY QUESTIONS TO START OFF THE DEBATES James Robar and Chandra Martens

2:20-2:40	THE FUTURE OF THE MEDICAL PHYSICS PROFESSION IN CANADA: RADIATION SAFETY, MEDICAL IMAGING AND CERTIFICATION ISSUES David Wilkins and Luc Beaulieu
2:40-3:00	TEACHING MEDICAL PHYSICS IN THE 21ST CENTURY: CLASSICAL BASIC PHYSICS VERSUS SPECIALIZED TOPICS Jean-Pierre Bissonnette and Ervin Podgorsak
3:00-3:30	Break
3:30-4:15	INTEGRATING ELECTRONIC BRACHYTHERAPY INTO CONVENTIONAL RADIOTHERAPY PRACTICE Mark Rivard Moderator: James Robar

Thursday September 23 2010

7:00-8:00 Breakfast and Registration *Regency Foyer*

8:00-8:30 CARO Presidential Address *Regency D & E/F*

[Matthew Parliament](#)

8:30-9:30 CARO Lecture

Chair: [Matthew Parliament](#)

Objectives: To review medical physics in Canada; scientific and professional developments from 1970 to 2010, current issues, and future trends.

8:30-9:20 **VIGNETTES FROM CANADIAN MEDICAL PHYSICS: 1970 - 2010** [Ervin Podgorsak](#)

9:20-9:30 Question and Answer Period

9:30-10:00 Break

10:00-12:00 Theme Symposium

Moderator: [Wayne Beckham](#)

Objectives: Upon completion of this symposium, attendees should be able to:

- understand the benefits and pitfalls of rapid implantation of new technology in clinic
 - to hear about the example of rapidarc technology
 - to understand the challenge of new technology from the physicist point of view.
-

NEW TECHNOLOGY AS AN (EVIDENCE BASED?) MEDICAL INTERVENTION [Soren Bentzen](#)

**KNOWING AND BELIEVING IN MEDICINE AND EVERYDAY LIFE; I'LL SEE THAT WHEN I BELIEVE IT!
(THE PSYCHOLOGICAL AND COGNITIVE BASIS OF MISPERCEPTION, MISINTERPRETATION AND BIAS)**
[James Morris](#)

PATIENT SAFETY IN RADIATION THERAPY [William Hendee](#)

12:00-2:00 Lunch on your own

2:00-3:24 **CARO Paper Session 1** *Regency D*

BREAST CANCER

Moderators: Dave Voduc, David D'Souza

Objectives: Upon completion of this session, attendees will be able to:

- identify the management of breast cancer
 - discuss the current issues in the field of breast cancer
 - discuss the role of new technology in the field of breast cancer therapy.
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- 2:00-2:12 **15** **WHAT IS THE ACTUAL RATE OF ACUTE SKIN TOXICITY IN WOMEN UNDERGOING ADJUVANT RADIATION THERAPY FOR EARLY BREAST CANCER? PRELIMINARY RESULTS OF A SINGLE INSTITUTION PHASE II STUDY** M. Tamim Niazi, Sergio Faria, Khalil Sultanem, Thierry Muanza, Boris Bahoric, Ronnie Rotondo, Hani Al-Halabi, Te Vuong McGill University, Montreal, QC
- 2:12-2:24 **16** **SCATTER DOSE TO BODY ORGANS FOR VARIOUS BREAST IRRADIATION TECHNIQUES** Jean-Philippe Pignol, Brian M Keller, Ananth Ravi; Odette Cancer Centre, University of Toronto, Toronto, ON
- 2:24-2:36 **17** **LONG TERM SIDE EFFECTS, COSMETIC OUTCOMES AND LOCAL CONTROL FOLLOWING PERMANENT BREAST SEED IMPLANTS** Jean-Philippe Pignol, Eileen Rakovitch, Brian Keller, Ananth Ravi, Eli Lechtman, Shahram Mashouf; Odette Cancer Centre, University of Toronto, Toronto, ON
- 2:36-2:48 **18** **LOCOREGIONAL RECURRENCE RISKS IN WOMEN WITH NODAL MICROMETASTATIC BREAST CANCER** Krystine Lupe¹, Pauline Truong¹, Cheryl Alexander², Caroline Speers³, Scott Tyldesley¹; ¹University of British Columbia, Victoria, BC, ²British Columbia Cancer Agency, Vancouver Island Centre, Victoria, BC, ³British Columbia Cancer Agency, Vancouver, BC
- 2:48-3:00 **19** **CAN WE ACCURATELY PREDICT WHICH BREAST CANCER PATIENTS WITH POSITIVE SENTINEL NODES WILL HAVE FURTHER DISEASE ON AXILLARY NODE DISSECTION?** Tanya Berrang¹, Caroline Walter¹, Mary Lesperance¹, Pauline Truong¹, Alan Hayashi², Matthew Paquette¹, Jeevin Shahi¹, Lyndsey Lerch², Ivo Olivetto¹; ¹British Columbia Cancer Agency, Victoria, BC, ²University of British Columbia, Victoria, BC
- 3:00-3:12 **20** **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 FRACTIONATION SCHEMES?** Iwa Kong¹, Lawrence Paszat¹, Sharon Nofech-Moses², Refik Saskin², Wedad Hanna², Carole Taylor², Eileen Rakovitch¹; ¹Odette Cancer Centre, Toronto, ON, ²Sunnybrook Health Sciences Centre, Toronto, ON
- 3:12-3:24 **21** **ACCELERATED PARTIAL BREAST IRRADIATION: HIGHLY RELIABLE RADIATION TECHNIQUE** Anne Dagnault¹, Isabelle Vallières², Jean Robert², Isabelle Germain²; ¹CHUQ-Hôtel-Dieu, Québec, QC, ²Laval University, Québec, QC
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2:00-3:24 **CARO Paper Session 2** *Regency E/F*

GENITOURINARY CANCER

Moderators: Melanie Reed, Charles Catton

Objectives: Upon completion of this session, attendees will be able to:

- identify the management of genitourinary cancer
- discuss the current issue in the field of genitourinary cancer
- discuss the role of adjuvant and salvage radiation therapy after prostatectomy.

- 2:00-2:12 **22** **PSA PROFILE OF CURED PATIENTS AFTER IODINE¹²⁵ PROSTATE BRACHYTHERAPY** Juanita Crook¹, Alfonso Gomez², Clement Ma³, Michael McLean⁴, Sharon Fung⁴;
¹University of British Columbia, Kelowna, BC, ²University of Bilbao, Barakaldo, Spain, ³University Health Network, Toronto, ON, ⁴Princess Margaret Hospital, Toronto, ON
- 2:12-2:24 **23** **BIOCHEMICAL CONTROL IMPROVES OVERALL SURVIVAL FOR INTERMEDIATE AND HIGH RISK PROSTATE CANCER PATIENTS WHO HAVE AN ESTIMATED TEN-YEAR SURVIVAL OF ≥ 50%** Mitchell Liu, Thomas Pickles², Michel Joffres³, Mandip Khaira⁴, Winkle Kwan⁴, James Morris²; ¹British Columbia Cancer Agency, Vancouver Centre, Vancouver, BC, ²University of British Columbia, Vancouver, BC, ³Simon Fraser University, Burnaby, BC, ⁴University of British Columbia, Surrey, BC
- 2:24-2:36 **24** **HOW OFTEN DO BREAKTHROUGHS OF TESTOSTERONE SUPPRESSION OCCUR WHILE ON AN LHRH ANALOGUE (LHRHA), AND ARE THEY OF IMPORTANCE?** Thomas Pickles¹, Wes Schreiber², Scott Tyldesley¹; ¹British Columbia Cancer Agency, Vancouver, BC, ²University of British Columbia, Vancouver, BC
- 2:36-2:48 **25** **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** Scott Morgan¹, Cindy Walker-Dilks², Bryan Goldman³, Libni Eapen¹, Eric Winkquist⁴, Joseph Chin⁴, Gregory Swanson⁵, Ian Thompson⁵, Andrew Loblaw⁶; ¹University of Ottawa, Ottawa, ON, ²McMaster University, Hamilton, ON, ³Southwest Oncology Group Statistical Centre, Seattle, WA, ⁴University of Western Ontario, London, ON, ⁵University of Texas Health Science Centre, San Antonio, TX, ⁶University of Toronto, Toronto, ON
- 2:48-3:00 **26** **IS MAXIMUM GRADE SUFFICIENT WHEN REPORTING LATE GASTROINTESTINAL TOXICITY AFTER PELVIC RADIOTHERAPY FOR PROSTATE CANCER?** Andrew Bayley, Tara Rosewall, Robert Bristow, Peter Chung, Mary Gospodarowicz, Cynthia Ménard, Michael Milosevic, Padraig Warde, Charles Catton; Princess Margaret Hospital, University of Toronto, Toronto, ON
- 3:00-3:12 **27** **THE NEED FOR AND UTILIZATION OF ADJUVANT POST PROSTATECTOMY RADIOTHERAPY IN A CANADIAN PROVINCE** Scott Tyldesley¹, Michael Peacock², Jill Quirt², William James Morris², Alan So², Charmaine Kim Sing², Michael Carter², Thomas Pickles²;
¹British Columbia Cancer Agency, Vancouver, BC, ²University of British Columbia, Vancouver, BC
- 3:12-3:24 **28** **SIGNIFICANCE OF CIRCULATING TUMOUR CELLS IN PROSTATE CANCER PATIENTS RECEIVING SALVAGE RADIATION** Tracy Sexton¹, Alison Allan², Lori Lowes¹, Michael Lock¹, George Rodrigues¹, David D'Souza¹, Glenn Bauman¹, Varagur Venkatesan²; ¹University of Western Ontario, London, ON, ²London Regional Cancer Program, London, ON
- 3:24-3:54 Break

3:55-5:00 **CARO Paper Session 3** *Regency D*

APPLIED PHYSICS AND TECHNOLOGY

Moderators: Maria Vlachaki, Luc Beaulieu

Objectives: Upon completion of this session, attendees will be able to:

- identify state-of-the-art volume delineation and treatment planning strategies
 - discuss the pros and cons of 3DCRT and IMRT in treatment of liver cancer
 - understand the dosimetric aspects of the interstitial brachytherapy of the breast.
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- 3:55-4:07 **29** **DOIMETRIC COMPARISON OF THE PARIS SYSTEM AND THE RTOG METHOD OF PRESCRIPTION FOR INTERSTITIAL BRACHY THERAPY OF THE BREAST** R Studinski¹, M Villeneuve², M Chelfi², L Grimard¹; ¹University of Ottawa Hospital, Ottawa, Ontario, ²CHRO, Gatineau, Québec
- 4:07-4:19 **30** **COMPARATIVE PLANNING EVALUATION OF 3D CRT AND HELICAL TOMOTHERAPY FOR LIVER CANCER CASES** Michael Lock¹, Slav Yartsev², James Renaud¹, Barbara Fisher¹, George Rodrigues², David D'Souza², Eugene Wong¹; ¹University of Western Ontario, London, ON, ²London Regional Cancer Program, London, ON
- 4:19-4:31 **31** **A SINGLE INSTITUTION FIVE YEAR RETROSPECTIVE REVIEW OF PALLIATIVE RADIOTHERAPY IN CARINOMA OF THE OESOPHAGUS** Amir H Montazeri, Michelle Mascarenhas, Helen Wong, Brian Haylock, Nicola Thorp, Raj Sripadam; Clatterbridge Centre for Oncology NHS Foundation Trust, Wirral, United Kingdom
- 4:31-4:43 **32** **ADAPTIVE PLANNING WITH INTENSITY-MODULATED RADIATION THERAPY FOR HEAD AND NECK CANCER: PILOT STUDY – RESULTS ON FIRST 10 PATIENTS** Lisa Capelle, Marc Mackenzie, Colin Field, Matthew Parliament, Sunita Ghosh, Rufus Scrimger; Cross Cancer Institute, Edmonton, AB
- 4:43-4:55 **33** **18F-FDG-PET IMAGING IN RADIOTHERAPY FOR TUMOUR VOLUME DELINEATION IN TREATMENT OF HEAD AND NECK CANCER** Guila Delouya, Annie Houle, Levon Igdbashian, Manon Bélaïr, Luc Boucher, Christian Cohade, Édith Fillion, Martin Hinse, Charles Martel, Philippe Després, Phuc Felix Nguyen-Tan; Université de Montreal, Montreal, QC
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3:55-5:00 **CARO Paper Session 4** *Regency E/F*

SKIN/POPULATION HEALTH SCIENCES/GASTROINTESTINAL/PAEDIATRICS

Moderators: Alan Nichol, Michael Brundage

Objectives Upon completion of this session, attendees will be able to:

- discuss the use of stereotactic radiation therapy for choroidal melanoma and hepatic cancer
 - discuss the management of pediatric ependymoma
 - discuss the symptom burden of cancer patients
 - understand the mechanism of generating research questions.
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3:55-4:07 **34** **STEREOTACTIC RADIOTHERAPY IN THE TREATMENT OF JUXTAPAPILLARY CHOROIDAL MELANOMA: THE MCGILL UNIVERSITY EXPERIENCE** Rolina Al Wassia¹, Alan Dal Pra¹, Kitty Shun¹, Ahmed Shaban¹, Christine Corriveau², Chaim Edelstein¹, Russel Ruo¹, Horacio Patrocino¹, George Shenouda¹; ¹McGill University, Montreal, QC, ²Notre-Dame Hospital, Montreal, QC

4:07-4:19 **35** **SYMPTOM BURDEN AND PERFORMANCE STATUS IN A POPULATION BASED COHORT OF CANCER PATIENTS** Lisa Barbera¹, Hsien Seow², Doris Howell³, Rinku Sutradhar⁴, Craig Earle⁴, Ying Liu⁴, Audra Stitt⁴, Amna Husain³, Jonathan Sussman², Deborah Dudgeon⁵; ¹Odette Cancer Centre, Toronto, ON, ²McMaster University, Hamilton, ON, ³University of Toronto, Toronto, ON, ⁴Institute for Clinical Evaluative Sciences, Toronto, ON, ⁵Queen's University, Kingston, ON

4:19-4:31 **36** **USING THE TUMOUR CONFERENCE TO GENERATE RESEARCH QUESTIONS** Paul Blood, Jim Donald, Stuart Jones, Nicol Macpherson, Pauline Truong; British Columbia Cancer Agency, Vancouver Island Centre, Victoria, BC

4:31-4:43 **37** **ADJUVANT RADIOTHERAPY IN THE TREATMENT OF PEDIATRIC MYXOPAPILLARY EPENDYMOMAS, REVIEW OF AN INSTITUTIONAL EXPERIENCE** Hani Al-Halabi, David Cuthbert, Jose Luis Montes, Jeffrey Atkinson, Jean-Pierre Farmer, Carolyn Freeman; McGill University, Montreal, QC

4:43-4:55 **38** **PHASE I STUDY OF IMAGE-GUIDED AND RADIOBIOLOGICALLY-GUIDED STEREOTACTIC BODY RADIOTHERAPY FOR HEPATIC LESIONS** Michael Lock¹, Stewart Gaede¹, Kevin Sinclair², Barbara Fisher¹, Francisco Perera³, Belal Ahmad¹, Tracy Sexton¹, George Rodrigues³, David D'Souza³, Eugene Wong¹; ¹University of Western Ontario, London, ON, ²University of Guelph, Guelph, ON, ³London Regional Cancer Centre, London, ON

5:00-6:30 **ANNUAL BUSINESS MEETING** *Regency D*

7:00 **Welcome Reception**

*Pan Pacific Vancouver Hotel, 300-999 Canada Place
www.panpacific.com*

Friday September 24 2010

7:00-7:30 Breakfast and Registration *Regency Foyer*

7:30-8:30 **POSTER VIEWING** *Regency ABC*

8:30-9:30 **POSTER DISCUSSION SESSION A | BREAD AND BUTTER** *Regency D*

POSTER DISCUSSION SESSION B | PEOPLE'S CHOICE *Regency E/F*

Poster Discussion A **BREAD AND BUTTER**

Moderators: Abraham Alexander, Shahida Ahmed

- 77** **THREE-YEAR OUTCOMES OF A CANADIAN MULTI-CENTRE STUDY OF ACCELERATED PARTIAL BREAST IRRADIATION (APBI) USING CONFORMAL RADIATION THERAPY** Tanya Berrang¹, Ivo Olivotto¹, Tarnjit Parhar¹, Alan Nichol¹, Jonathan Sussman², John Cho³, Islam Mohamed⁴, Elaine Wai¹, Do-Hoon Kim², Scott Tyldesley⁴, Pauline Truong¹, Jeevin Shahi¹, Tim Whelan²; ¹British Columbia Cancer Agency, Victoria, BC, ²Juravinski Cancer Centre, Hamilton, ON, ³Princess Margaret Hospital, Toronto ON, ⁴British Columbia Cancer Agency, Vancouver, BC
- 78** **RESULTS FROM A PILOT EXERCISE PROGRAM FOR BREAST CANCER PATIENTS WITH CHRONIC BREAST OR CHEST-WALL PAIN** Philip Wong, Lisa Masse, Sabrina Pillay, Ilka Lowensteyn, Marla Gold, Steven Grover, Christine Lambert, Tarek Hijal, Thierry Muanza; McGill University, Montreal, QC
- 79** **POPULATION-BASED OUTCOMES IN PATIENTS TREATED WITH MASTECTOMY FOR DUCTAL CARCINOMA IN SITU** Dawn Owen¹, Scott Tyldesley², Elaine S. Wai³, Caroline Speers¹, Cheryl Alexander⁴, Pauline Truong², Alan Nichol³; ¹British Columbia Cancer Agency, Vancouver, BC, ²University of British Columbia, Vancouver, BC, ³University of British Columbia, Victoria, BC, ⁴British Columbia Cancer Agency, Vancouver Island Centre, Victoria, BC
- 135** **ACTIVE SURVEILLANCE FOR LOCALIZED PROSTATE CANCER: DEVELOPMENT OF A NOMOGRAM TO PREDICT THE PROBABILITY OF DEFERRED RADICAL TREATMENT** Scott Morgan¹, Karen Thomas², Nicholas van As², Robert Huddart², Alan Horwich², David Dearnaley², Christopher Parker²; ¹University of Ottawa, Ottawa, ON, ²Royal Marsden Hospital, Sutton, Surrey, UK
- 136** **RECTAL TOXICITY IS RELATED TO RECTAL DOSIMETRY IN I¹²⁵ PERMANENT PROSTATE IMPLANTS: A LONG TERM STUDY IN 1006 PATIENTS IN BRITISH COLUMBIA** Mira Keyes¹, Ingrid Spadinger², Mitchell Liu¹, Thomas Pickles¹, Michael McKenzie¹, Howard Pai³, Ross Halperin⁴, Winkle Kwan⁵, Alexander Agranovich⁵, Vince Lapointe¹, Amy Hayden¹, W James Morris¹; ¹University British Columbia, British Columbia Cancer Agency, Vancouver, BC, ²British Columbia Cancer Agency, Vancouver Cancer Centre, Vancouver, BC, ³University British Columbia, British Columbia Cancer Agency, Victoria, BC, ⁴University British Columbia, Kelowna, BC, ⁵University British Columbia, Surrey, BC
- 137** **CREATION OF A RTOG COMPLIANT PROSTATE BED ATLAS ASSISTED BY A CT-BASED DEFORMABLE REGISTRATION CONTOURING SOFTWARE SYSTEM** George Rodrigues¹, Jeremiah Hwee², Alexander Louie², Jon Piper³, Glenn Bauman², Stewart Gaede²; ¹London Regional Cancer Program, London, ON, ²University of Western Ontario, London, ON, ³Mimvista Inc., Cleveland, OH
- 138** **INFLUENCE OF ABDOMINAL ADIPOSITY, WAIST CIRCUMFERENCE AND BODY MASS INDEX ON CLINICAL AND PATHOLOGICAL FINDINGS IN PATIENTS TREATED WITH RADIOTHERAPY FOR LOCALIZED PROSTATE CANCER** Thomas Zilli¹, Thu Van Nguyen¹, Jean-Paul Bahary¹, Jean-Pierre Guay¹, Miguel Chagnon², Alix Dufresne¹, Daniel Taussky¹; ¹Centre hospitalier de l'Université de Montréal, Montréal, QC, ²Université de Montréal, Montréal, QC
- 139** **PROSPECTIVE STUDY OF EXTREME HYPOFRACTIONATED RADIOTHERAPY (35 GY IN FIVE FRACTIONS) FOR LOW-RISK PROSTATE CANCER: TOXICITY RESULTS** Harvey Quon¹, Patrick Cheung¹, Angela Cesta¹, Lori Holden¹, Colin Tang¹, Geordi Pang¹, Gerard Morton¹, Parminder Basran², Romeo Tirona¹, Alexandre Mamedov¹, Andrea Deabreu¹, Andrew Loblaw¹; ¹University of Toronto, Toronto, ON, ²Odette Cancer Centre, Toronto, ON

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- 140** HYPOFRACTIONATED EXTERNAL BEAM RADIOTHERAPY WITHOUT ANDROGEN DEPRIVATION FOR INTERMEDIATE RISK PROSTATE CANCER: PRELIMINARY RESULTS AND TOXICITY ANALYSIS Alan Dal Pra, Sergio Faria, Fabio Cury, Marc David, Marie Duclos, George Shenouda, Luis Souhami; McGill University, Montreal, QC
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- 141** INTRAOPERATIVE DEXAMETHASONE REDUCES THE RATE OF ACUTE URINARY RETENTION AFTER ¹²⁵I PROSTATE BRACHYTHErapy Dawn Owen¹, Thomas Pickles², Mira Keyes²; ¹British Columbia Cancer Agency, Vancouver, BC, ²Univeristy of British Columbia, Vancouver, BC
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Poster Discussion B **PEOPLE'S CHOICE**

Moderators: Sally Smith, Tracy Sexton

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- 96** NEOVASCULAR GLAUCOMA FOLLOWING STEREOTACTIC RADIOTHERAPY FOR JUXTAPAPILLARY CHOROIDAL MELANOMA: HISTOPATHOLOGICAL-DOSIMETRIC FINDINGS Arjun Sahgal¹, Bruno Fernandes¹, Daniel Weisbrod¹, Yeni Yucel², Matthew Followell¹, David Payne¹, Hugh McGowan³, Rand Simpson¹, Wei Xu¹, Mostafa Heydari³, Normand Laperriere¹; ¹University of Toronto, Toronto, ON, ²Department of Ophthalmology and Vision Sciences, Toronto, ON, ³Princess Margaret Hospital, Toronto, ON
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- 97** IMPACT OF IMMOBILIZATION ON INTRA-FRACTION MOTION FOR SPINE STEREOTACTIC BODY RADIOTHERAPY (SBRT) USING CONE-BEAM CT (CBCT) Winnie Li¹, Arjun Sahgal², Matthew Foote², Barbara-Ann Millar², David Jaffray², Daniel Letourneau²; ¹Princess Margaret Hospital, Toronto, ON, ²University of Toronto, Toronto, ON
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- 98** 18F-FDOPA POSITRON EMISSION TOMOGRAPHY FOR TARGET DELINEATION IN HIGH-GRADE GLIOMAS Fred Hsu¹, Alan Nichol¹, Don Wilson¹, Susan Zhang¹, Roy Ma¹, Michael McKenzie¹, Francois Bernard²; ¹British Columbia Cancer Agency, Vancouver, BC, ²University of British Columbia, Vancouver, BC
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- 108** QUALITY ASSURANCE DURING THE COURSE OF PELVIC INTENSITY-MODULATED RADIATION THERAPY FOR GYNAECOLOGICAL CANCERS: AN EVALUATION WITH CONE-BEAM CT (CBCT) Francois Bachand, Peter Lim, Yue Qiu, Carol Marlowe, Vivan Cheung, Christina Aquino-Parsons; British Columbia Cancer Agency, Vancouver Cancer Centre, Vancouver, BC
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- 123** IN VIVO RADIOTHERAPY ENHANCEMENT WITH GLUCOSE-CAPPED GOLD NANOPARTICLES Wilson Roa¹, Xiaohong Yang¹, Dejuan Yang¹, Xiaoyan Yang², James Xing¹, Jie Chen²; ¹Cross Cancer Institute, Edmonton, AB, ²University of Alberta, Edmonton, AB
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- 172** AN EXAMINATION OF THE INCIDENCE AND TREATMENT OF BRAIN METASTASES AFTER PROPHYLACTIC CRANIAL IRRADIATION (PCI) FOR SMALL CELL LUNG CANCER (SCLC) Mandip Khaira¹, Christopher W. Lee², Michele Joffres³, Devin Schellenberg¹; ¹University of British Columbia, Surrey, BC, ²Division of Medical Oncology, Surrey, BC, ³Simon Fraser University, Burnaby, BC
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- 173** IMPROVED SURVIVAL FOR ELDERLY PATIENTS WITH STAGE I NSCLC: A POPULATION-BASED TIME-TREND ANALYSIS IN THE STEREOTACTIC BODY RADIOTHERAPY ERA David Palma¹, Otto Visser², Frank Lagerwaard¹, Suresh Senan¹; ¹VU University Medical Centre, Amsterdam, Netherlands, ²Comprehensive Cancer Centre, Amsterdam, Netherlands
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- 183** CLINICAL IMPACT OF POSITRON EMISSION TOMOGRAPHY IN RESPONSE ASSESSMENT OF LYMPHOMA PATIENTS WITH RESIDUAL ABNORMALITIES FOLLOWING INITIAL TREATMENT Maryse Bernard, Richard Tsang, Lisa W. Le, Marc Freeman, David Hodgson, John Kuruvilla, Vishal Kukreti, Alexander Sun, Woodrow Wells, Michael Crump, Mary Gospodarowicz; Princess Margaret Hospital, Toronto, ON
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- 184** STAGE I-II FOLLICULAR LYMPHOMA: LONG TERM OUTCOMES Amanda Clarke¹, Richard Tsang¹, Alexander Sun¹, David Hodgson¹, Christine Massey¹, Melania Pintilie, Woodrow Wells¹, Michael Crump¹, Nikhilesh Patil², Mary Gospodarowicz²; Princess Margaret Hospital, Toronto, ON, ²University of Calgary, Calgary, AB
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9:30-9:50 Break

9:50-12:00 **Resident Competition** *Regency D & E/F*

Moderators: Anthony Brade, Paul Blood

Objectives: Upon completion of this session, attendees will be able to:

- identify current resident research projects across Canada
 - explore a variety of current radiation therapy relevant topics from across Canada
 - challenge the residents with specific questions on the topic.
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9:50-10:05 **39** **INTER-RATER RELIABILITY BETWEEN MUSCULOSKELETAL RADIOLOGISTS AND ORTHOPAEDIC SPINE SURGEONS ON CT IMAGING FEATURES OF SPINAL METASTASES** Luluel Khan, Gunita Mitera, Linda Probyn, Michael Ford, Lying Zhang, Edward Chow; University of Toronto, Toronto, ON

10:05-10:20 **40** **BONE METASTASES RESPONSE TO PALLIATIVE RADIATION ASSOCIATED WITH IMPROVED BM22 AND C15 SYMPTOM AND QUALITY OF LIFE SCORES** Amanda Caissie, Janet Nguyen, Lori Holden, Arjun Sahgal, Shaelyn Culleton, Lying Zhang, Liang Zeng, Gunita Mitera, May Tsao, Elizabeth Barnes, Cyril Danjoux, Edward Chow; University of Toronto, Toronto, ON

10:20-10:35 **41** **REDUCING PATIENT WAIT TIMES FOR RADIATION THERAPY AND IMPROVING THE RADIATION TREATMENT PLANNING EFFICIENCY WITH THE AID OF A DISCRETE-EVENT SIMULATION MODEL** Inge Aivas¹, Bielecki Tomasz², Jeff Cao¹, David D'Souza¹, Reza Mahjoub¹, George Rodrigues¹, Greg Zaric¹, Michael Lock¹; ¹University of Western Ontario, London, ON, ²McMaster University, Hamilton, ON

10:35-10:50 **42** **DUCTAL CARCINOMA IN SITU – THE INFLUENCE OF THE RADIOTHERAPY BOOST ON LOCAL CONTROL** Philip Wong, Christine Lambert, Raman K V Agnihotram, Marc David, Marie Duclos, Emma Pietracupa, Ciro Maietta, Carolyn Freeman; McGill University, Montreal, QC

10:50-11:00 Break

11:00-11:15 **43** **THE ROLE OF COMPUTED TOMOGRAPHY IN THE MANAGEMENT OF THE NECK FOLLOWING CONCOMITANT CHEMORADIO THERAPY IN PATIENTS WITH HEAD AND NECK CANCER** Sebastien Clavel, Marie-Pierre Charron, Manon Bélair, Guila Delouya, Bernard Fortin, Philippe Després, Denis Soulières, Édith Filion, Louis Guertin, Phuc Félix Nguyen-Tan; Centre hospitalier de l'Université de Montréal, Montréal, QC

11:15-11:30 **44** **ABDOMINAL ADIPOSITY AND TESTOSTERONE LEVELS IN PATIENTS WITH LOCALIZED PROSTATE CANCER** Moein Alizadeh¹, Nhu Tram Nguyen², Thomas Zilli¹, Thu Van Nguyen¹, Jean-Pierre Guay¹, Jean-Paul Bahary¹, Daniel Tausky¹; ¹Centre Hospitalier de l'Université de Montréal, Montreal, QC, ²Université de Montréal, Montreal, QC

11:30-11:45 **45** **PROSPECTIVE EVALUATION OF THE PROGNOSTIC UTILITY OF THE MINI MENTAL STATE EXAMINATION AND THE MONTREAL COGNITIVE ASSESSMENT IN PATIENTS WITH BRAIN METASTASES** Robert Olson¹, Maureen Parkinson², Hannah Carolan¹, Taruna Chhanabhai², Michael McKenzie¹; ¹University of British Columbia, Vancouver, BC, ²British Columbia Cancer Agency, Vancouver, BC

11:45-12:00 **46** **INTENSITY-MODULATED RADIOTHERAPY (IMRT) AND CONCURRENT CHEMOTHERAPY FOR ANAL AND PERIANAL CANCER: THE PRINCESS MARGARET HOSPITAL EXPERIENCE** Kathy Han, Julia Skliarenko, Tim Craig, Lisa W Le, Bernard J Cummings, Andrew J Bayley, James D Brierley, Charles Cho, Laura A Dawson, Robert Dinniwel, Zahra Kassam, Jolie Ringash, Rebecca K Wong, Monika K Krzyzanowska, Helen J Mackay, Malcolm J Moore, Eric X Chen, Ronald Feld, Jennifer Knox, John J Kim; Princess Margaret Hospital, University of Toronto, Toronto, ON

12:00-2:00 Lunch on your own

2:00-3:36	People's Choice <i>Regency D & E/F</i>
	Moderators: Bernard Cummings , Devin Schellenberg
	Objectives: Upon completion of this session, attendees will be able to:
	■ identify and discuss current research themes in radiation oncology in Canada
	■ discuss the outcomes of different treatment modalities for prostate cancer
	■ discuss the outcomes after adjuvant radiotherapy in lymphoma and breast cancer
	■ hear about modality to decrease skin toxicity
	■ hear about stereotactic radiotherapy of the spine.
2:00-2:12	47 COMPARISON OF HEALTH-RELATED QUALITY OF LIFE FIVE YEARS AFTER RADICAL PROSTATECTOMY (RP) OR BRACHYTHERAPY (BT): THE SPIRIT (SURGICAL PROSTATECTOMY VERSUS INTERSTITIAL RADIOTHERAPY INTERVENTION TRIAL) COHORT Juanita Crook ; University of British Columbia, Kelowna, BC
2:12-2:24	48 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) Padraig Warde ¹ , Malcolm Mason ² , Mathew Sydes ³ , Gregory Swanson ⁴ , Mary Gospodarowicz ¹ , Peter Kirkbride ⁵ , Edward Kostashuk ⁶ , John Hetherington ⁷ , Andrea Hiltz ⁸ , Keyue Ding ⁸ , Wendy Parulekar ⁸ ; ¹ Princess Margaret Hospital, University of Toronto, Toronto, ON, ² Cardiff University, Cardiff, United Kingdom, ³ United Kingdom, ⁴ University of Texas, San Antonio, TX, ⁵ University of Sheffield, Sheffield, United Kingdom, ⁶ University of British Columbia, Surrey, BC, ⁷ University of Hull, Hull, United Kingdom, ⁸ Queen's University, Kingston, ON
2:24-2:36	49 IS THERE A ROLE FOR INVOLVED NODAL RADIOTHERAPY IN THE MANAGEMENT OF LIMITED STAGE DIFFUSE LARGE B-CELL LYMPHOMA (DLBCL)? Belinda Campbell ¹ , Joseph Connors ² , Randy Gascoyne ² , Thomas Pickles ² , James Morris ² , Laurie Sehn ² ; ¹ Peter MacCallum Cancer Centre, Melbourne, Victoria, Australia, ² British Columbia Cancer Agency, Vancouver, BC
2:36-2:48	50 WOMEN WITH CLOSE OR POSITIVE MARGINS AFTER BREAST CONSERVING SURGERY HAVE HIGHER LOCAL RECURRENCE RISK DESPITE RADIOTHERAPY Krystine Lupe ¹ , Pauline Truong ¹ , Cheryl Alexander ² , Mary Lesperance ³ , Scott Tyldesley ¹ ; ¹ University of British Columbia, Victoria, BC, ² British Columbia Cancer Agency, Vancouver Island Centre, Victoria, BC, ³ University of Victoria, Victoria, BC
2:48-3:00	51 IMPLICATIONS OF CT-IMAGING FOR POSTPLAN QUALITY ASSESSEMENT (QA) IN PROSTATE BRACHYTHERAPY (BT) Juanita Crook , Cynthia Araujo , David Petrik , David Kim , Larry Watts , Ross Halperin ; University of British Columbia, Kelowna, BC
3:00-3:12	52 SILVER COATED NYLON DRESSING IS EFFECTIVE IN PREVENTING RADIATION INDUCED DERMATITIS IN PATIENTS WITH GASTROINTESTINAL CANCER: RESULTS FROM A PHASE III STUDY M Tamim Niazi ¹ , Corrie Marijnen ² , Krzysztof Bujko ³ , Elie Nasr ⁴ , Christine Lambert ¹ , Marie Duclos ¹ , Marc David ¹ , Sergio Faria ¹ , Bernard Cummings ⁵ , Te Vuong ¹ ; ¹ McGill, Montreal, QC, ² Leiden University, Leiden, Netherlands, ³ Curie Memorial Cancer Centre, Warsaw, Poland, ⁴ Universite Saint Joseph, Beirut, Lebanon, ⁵ University of Toronto, Toronto, ON
3:12-3:24	53 STEREOTACTIC BODY RADIATION THERAPY OF THE SPINE USING THE ELEKTA SYNERGY® HEXAPOD® AND BODYFIX® SYSTEMS Derek Hyde ¹ , Fiona Lochray ¹ , Arjun Sahgal ² ; ¹ Odette Cancer Centre, Sunnybrook Health Sciences, Toronto, ON, ² University of Toronto, Toronto, ON
3:24-3:36	54 ESCALATED-DOSE INTENSITY-MODULATED RADIOTHERAPY TO FUNCTIONAL MRI-DEFINED INTRAPROSTATIC LESIONS IN LOCALIZED PROSTATE CANCER: A COMPARATIVE PLANNING STUDY Scott Morgan ¹ , Sophie Riches ² , Christopher South ³ , Gerard McVey ³ , Alex Tan ³ , Christopher Parker ³ , Robert Huddart ³ , Alan Horwich ³ , Nandita de Souza ² , David Dearnaley ³ ; ¹ University of Ottawa, Ottawa, ON, ² Institute of Cancer Research, Sutton, Surrey, United Kingdom, ³ Royal Marsden Hospital, Sutton, Surrey, United Kingdom
3:36-4:00	Break

4:00-5:36 **CARO Paper Session 5** *Regency D*

CNS/LUNG/HEAD AND NECK/LYMPHOPROLIFERATIVE MALIGNANCIES

Moderators: Pamela Leco, Arjun Sahgal

Objectives: Upon completion of this session, attendees will be able to:

- identify the management of central nervous system, head and neck, lung and lymphoproliferative malignancy
- discuss the current issues of central nervous system, head and neck, lung and lymphoproliferative malignancy.

-
- 4:00-4:12 **55** **FOUR YEAR OUTCOMES OF PATIENTS WITH STAGE I LUNG CANCER TREATED WITH STEREOTACTIC BODY RADIATION THERAPY** Mojgan Taremi, Andrew Hope, Max Dahele, Shannon Pearson, Sharon Fung, Tom Purdie, Anthony Brade, John Cho, Alexander Sun, Jean Pierre Bissonnette, Andrea Bezjak; Princess Margaret Hospital, Toronto, ON
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- 4:12-4:24 **56** **A PHASE II STUDY OF CONCURRENT PEMETREXED (P)/CISPLATIN (C)/RADIATION (RT) FOR UNRESECTABLE STAGE IIIA/B NON-SMALL CELL LUNG CANCER (NSCLC)** Anthony Brade¹, Andrea Bezjak¹, Robert MacRae², Scott Laurie², John Cho¹, Andrew Hope¹, Alexander Sun¹, Lisa Wang¹, Stephanie Capobianco¹, ³Neill Iscoe, Frances Shepherd¹; ¹Princess Margaret Hospital, University of Toronto, Toronto, ON, ²Ottawa Hospital Cancer Centre, Ottawa, ON, ³Eli Lilly Canada, Toronto, ON
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- 4:24-4:36 **57** **STROMAL EXPRESSION OF CA-IX AS A PROGNOSTIC INDICATOR IN HPV-NEGATIVE HEAD AND NECK SQUAMOUS CELL CARCINOMA** Alexander Klimowicz¹, Nigel Brockton², Stephanie Petrillo¹, Anthony Magliocco¹, Joseph Dort³, Harold Lau¹; ¹Tom Baker Cancer Centre, Calgary, AB, ²Alberta Health Services - Cancer Care, Calgary, AB, ³University of Calgary, Calgary, AB
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- 4:36-4:48 **58** **EVALUATION OF DOSIMETRIC EFFECT IN ORGAN AT RISK DUE TO VOLUME SHRINKAGE DURING HEAD AND NECK RADIOTHERAPY USING KV CONE-BEAM CT (CBCT)** Lily Chau, Stephen Breen, Brian O'Sullivan, John Waldron; Princess Margaret Hospital, Toronto, ON
-
- 4:48-5:00 **59** **REDUCING THE RADIOTHERAPY FIELD SIZE IN THE CURATIVE TREATMENT OF LIMITED STAGE, FOLLICULAR LYMPHOMA: INVOLVED REGIONAL RADIOTHERAPY VERSES INVOLVED NODAL RADIOTHERAPY** Belinda Campbell¹, Joseph Connors², Ryan Woods², Randy Gascoyne², James Morris², Thomas Pickles², Kerry Savage²; ¹Peter MacCallum Cancer Centre, Melbourne, Victoria, Australia, ²British Columbia Cancer Agency, Vancouver, BC, Canada
-
- 5:00-5:12 **60** **LOCALIZED ORBITAL MALT LYMPHOMA TREATED WITH RADIATION THERAPY (RT): LONG TERM OUTCOMES INCLUDING EFFICACY AND TOXICITY** Jayant Goda¹, Lisa Le², Normand Laperriere¹, Barbara-Ann Millar¹, David Payne¹, Mary Gospodarowicz¹, Woodrow Wells¹, David Hodgson¹, Alexander Sun¹, Rand Simpson¹, Richard Tsang¹; ¹University of Toronto, Toronto, ON, ²Princess Margaret Hospital, Toronto, ON
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- 5:12-5:24 **61** **LIMITED-STAGE MANTLE-CELL LYMPHOMA: THE PRINCESS MARGARET HOSPITAL EXPERIENCE** Maryse Bernard, Richard W Tsang, Lisa W Le, David C Hodgson, Alexander Sun, Woodrow Wells, Michael Crump, Mary Gospodarowicz; Princess Margaret Hospital, University of Toronto, Toronto, ON
-
- 5:24-5:36 **62** **A MULTI-CENTRE PHASE I STUDY OF TOMOTHERAPY IN PATIENTS WITH BENIGN PRIMARY BRAIN TUMOR: PROSPECTIVE ANALYSIS ON QUALITY OF LIFE AT ONE YEAR** Bryan Brunet¹, Glenn Bauman², Bassam Abdulkarim¹, Gino Fallone³, Colin Field¹, Barbara Fisher⁴, Sunita Ghosh³, Vivek Mehta¹, Albert Murtha¹, Matthew Parliament¹, Samir Patel¹, Nadeem Pervez¹, B Matt Wheatley¹, Rau Urtasun¹, Wilson Roa¹; ¹University of Alberta, Edmonton, AB ²University of Western Ontario, London, ON, ³Cross Cancer Institute, Edmonton, AB, University of Alberta, Edmonton, AB, ⁴University of Western Ontario, London, ON
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4:00-5:36 **CARO Paper Session 6** *Regency E/F*

GYNECOLOGIC CANCER/BASIC SCIENCE

Moderators: Mohammed Khan, Caroline Chung

Objectives: Upon completion of this session, attendees will be able to:

- discuss management and current trends in the treatment of cervical cancer
 - explore a variety of translational and basic research projects across Canada.
-

4:00-4:12 **63 THE IMPACT OF TUMOUR CO-EXPRESSION OF KI-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**

Corinne Doll¹, Anthony Fyles², Christina Aquino-Parsons³, Melania Pintilie², Alexander Klimowicz¹, Stephanie Petrillo¹, Michael Milosevic², Brad Wouters⁴, Peggy Olive³, Blaise Clarke², Peter Craighead¹, Susan Lees-Miller¹, Anthony Magliocco¹; ¹University of Calgary, Calgary, AB, ²University of Toronto, Toronto, ON, ³University of British Columbia, Vancouver, BC, ⁴GROW Research Institute, Maastricht, Netherlands

4:12-4:24 **64 LOCALLY ADVANCED CERVIX CANCER: OUTCOMES WITH 3D IMAGE GUIDED HDR BRACHYTHERAPY USING THE VIENNA FRACTIONATION** Abhirami Hallock¹, Kathleen Surry², Alexander Hammond³, Brian Yaremko³, David D'Souza³; ¹Schulich School of Medicine and Dentistry, University of Western Ontario, London, ON, ²London Regional Cancer Program, London, ON, ³University of Western Ontario, London, ON

4:24-4:36 **65 BRACHYTHERAPY FOR CERVICAL CANCER: CANADIAN PATTERNS OF PRACTICE CHANGES, 2006 TO 2009** Nikhilesh G Patil¹, Simon Pavamani¹, Andrew Pearce², David D'Souza³, Lorraine Portelance⁴, Rao Khan¹, Peter Craighead¹, Corinne Doll¹; ¹University of Calgary, Calgary, AB, ²Regional Cancer Program Sudbury, Sudbury, ON, ³University of Western Ontario, London, ON, ⁴McGill University Health Centre, Montreal, QC

4:36-4:48 **66 ERCC1 STATUS IN PATIENTS WITH LOCALLY ADVANCED CERVICAL CANCER TREATED WITH RT OR CRT: A CARO TRANSLATIONAL RESEARCH GROUP MULTICENTER CLINICOPATHOLOGIC STUDY** Corinne Doll¹, Anthony Fyles², Christina Aquino-Parsons³, Melania Pintilie², Alexander Klimowicz¹, Stephanie Petrillo¹, Michael Milosevic², Blaise Clarke², Peter Craighead¹, Susan Lees-Miller¹, Anthony Magliocco¹; ¹University of Calgary, Calgary, AB, ²University of Toronto, Toronto, ON, ³University of British Columbia, Vancouver, BC

4:48-5:00 **67 A NOVEL RADIOSENSITIZING TARGET FOR HEAD AND NECK CANCER IDENTIFIED FROM A GENOME-WIDE RNAI SCREEN** Emma Ito¹, Shijun Yue², Eduardo Moriyama², Angela Hui², Inki Kim², Wei Shi², Nehad Alajez², Nirmal Bhogal², GuoHua Li³, Alessandro Datti⁴, Aaron Schimmer², Brian Wilson², Peter Liu³, Daniel Durocher⁴, Benjamin Neel², Brian O'Sullivan⁵, Bernard Cummings⁵, Robert Bristow², Fei-Fei Liu²; ¹University of Toronto, Toronto, ON, ²Ontario Cancer Institute, Toronto, ON, ³Toronto General Research Institute, Toronto, ON, ⁴Samuel Lunenfeld Research Institute, Toronto, ON, ⁵Princess Margaret Hospital, Toronto, ON

5:00-5:12 **68 CHANGES IN NEURAL STEM CELL AND PROGENITOR CELL POPULATION AFTER IONIZING RADIATION** Yu-qing Li, Shun Wong; Sunnybrook Health Sciences Centre, University of Toronto, Toronto, ON

5:12-5:24 **69** **ACURA** **MULTI-MODAL REAL-TIME THREE-DIMENSIONAL ULTRASOUND-BASED IMAGING FOR DETECTION OF PROSTATE CANCER IN MEN** Hans Chung¹, Ervis Sofroni², Naum Papanicolaou³, Linda Sugar², Gerard Morton², Martin Yaffe², Gregory Czarnota²; ¹Odette Cancer Centre, Toronto, ON, ²University of Toronto, Toronto, ON, ³Sunnybrook Health Sciences Centre, Toronto, ON

5:24-5:36 **70** **RAZCER** **INTRACRANIAL MURINE TUMOUR INVESTIGATION OF RADIATION AND ANTIANGIOGENIC AGENTS USING SERIAL MRI** Caroline Chung¹, Warren Foltz¹, Patricia Lindsay¹, Kelly Burrell², Jasper Kallehauge¹, Petra Wildgoose¹, Andrea Kassner², Kevin Camphausen³, Anthony Brade¹, Michael Milosevic¹, David Jaffray¹, Gelareh Zadeh⁴, Cynthia Ménard¹; ¹Princess Margaret Hospital, Toronto, ON, ²Sick Kids Hospital, Toronto, ON, ³NCI-ROB, Bethesda, MD, ⁴Toronto Western Hospital, Toronto, ON

7:00 **Dinner**

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Saturday September 25 2010

7:00-7:30	Breakfast <i>Regency Foyer</i>
7:30-9:00	CARO/ESTRO Symposium <i>Regency D & E/F</i>
	THE RAPID IMPLEMENTATION OF NEW TECHNOLOGY IN THE FIELD OF RADIATION ONCOLOGY
	Moderator: Jean-Pierre Bissonnette
	Objectives: Upon completion of this session, attendees will be able to:
	■ discuss the impact of rapid implementation of new technology in radiation therapy
	■ hear about the use of gold nanoparticles for radiosensitization
	■ explore the benefits and pitfalls of implementation of tomotherapy in clinic.
7:30-7:45	Introduction
7:45-8:10	GOLD NANOPARTICLES / RADIOSENSITIZATION Jean-Philippe Pignol
8:10-8:35	TECHNOLOGICAL IMPLEMENTATION BASED ON TOMOTHERAPY EXPERIENCE: USING TOMOTHERAPY AS A “GOLD-STANDARD” IN PARETO-LIKE PLANNING COMPARISONS WITH OTHER ADVANCED PHOTON DELIVERY TECHNIQUES Markus Albers
8:35-8:55	Discussion Period
9:00-10:00	Gordon Richards Lecture
	Chair: Matthew Parliament
	Objectives: To discuss the future of radiation oncology in the context of progress made over the past thirty years, and the obligations and opportunities arising from our current environment.
9:00-9:50	RADIATION ONCOLOGY – QUO VADIS? Mary Gospodarowicz
9:50-10:00	Question and Answer Period
10:00-10:30	Break
10:30-11:30	Finbarr (Barry) Sheehan Lecture
	Chair: Mira Keyes
	Objectives: To describe how the uniquely human awareness of death influences human behaviour, and consider implications of this idea for medical practice and life in general.
10:30-11:20	LIVING WITH DEATH Sheldon Solomon
11:20-11:30	Question and Answer Period
11:30-11:45	Break

11:45-1:15 **Workshop 1** *Regency B*

RADIOTHERAPY QUALITY AND SAFETY IN CANADA: AN INTER-DISCIPLINARY, PAN-CANADIAN COLLABORATION Michael Milosevic, William MacKillop, Peter Dunscombe, John French

Objectives: At the end of this session, the learner will be able to:

- strengthen interdisciplinary communication and cooperation among key stakeholders involved in the delivery of radiation treatment in Canada
 - highlight important quality and safety issues from the perspectives of each of the professional disciplines involved in radiation treatment delivery
 - begin a dialogue within the Canadian radiation treatment community about quality issues
 - establish priorities for national quality initiatives over the next 2-5 years.
-

11:45-1:15 **Workshop 2** *Regency C*

RESPIRATORY MOTION MANAGEMENT IN THE IMAGE-GUIDED RADIATION THERAPY ERA Stewart Gaede, George Rodrigues, Michael Lock

Objectives: At the end of this session, the learner will be able to:

- interpret 4D-CT images of lung and liver tumours
 - perform target volume delineation and treatment planning using 4D-CT images
 - apply IGRT modalities such as cone-beam CT, orthogonal kV images, and respiratory gating to moving tumours.
-

11:45-1:15 **Workshop 3** *Balmoral*

ADVANCED ANALYTICS IN CANCER CARE: TOOLS TO IMPROVE SERVICE DELIVERY AND SYSTEM PERFORMANCE Pablo Santibanez, Scott Tyldesley, Steven Shechter

Objectives: At the end of this session, the learner will be able to:

- know basics of various analytical methodologies to effectively reduce patient wait times, improve patient flow and manage resources efficiently
 - address some of the current challenges in the Canadian cancer system
 - understand impact and challenges of real advances analytics initiatives.
-

11:45-1:15 **Workshop 4** *Regency A*

RESEARCH METHODS WORKSHOP: ADVANCED ISSUES IN CLINICAL TRIAL DESIGN – UNDERSTANDING COMMON PROBLEMS OF NON-INFERIORITY, SUBGROUP ANALYSIS, COMPOSITE AND SURROGATE ENDPOINTS Jackson Wu

Objectives: At the end of this session, the learner will be able to:

- describe some of the nuances and pitfalls of randomized clinical trial design and reporting
 - gain an appreciation of the complexity of clinical trials analysis and interpretation.
-

11:45-1:15 **Refresher Course 1** *Oxford*

TREATMENT RESPONSE MONITORING WITH POSITRON EMISSION TOMOGRAPHY IN SOLID TUMOURS: IS THIS THE FUTURE OF RADIATION ONCOLOGY Ian Poon, François Bénard, Anna Celler

Objectives: At the end of this session, the learner will be able to:

- appreciate the available clinical literature and its' limitations
- appreciate the potential and limitations of quantitative PET imaging and current techniques
- understand the present limitations and future directions of PET image analysis.

11:45-1:15 **Refresher Course 2** *Prince of Wales*

MANAGING PEOPLE WITH SKIN TUMOURS: THE RADIATION ONCOLOGIST'S PERSPECTIVE

Kurian Jones

Objectives: At the end of this session, the learner will be able to:

- understand the type and pathology of skin cancers, indications and rationale for radiotherapy
- provide the application of various radiation treatment techniques used with special orientation on target volume definitions and doses.

1:30 **Awards Ceremony and Closing Cocktail Reception** *Regency D & E/F Foyer*

September 14 - 17, 2011 Winnipeg Convention Centre

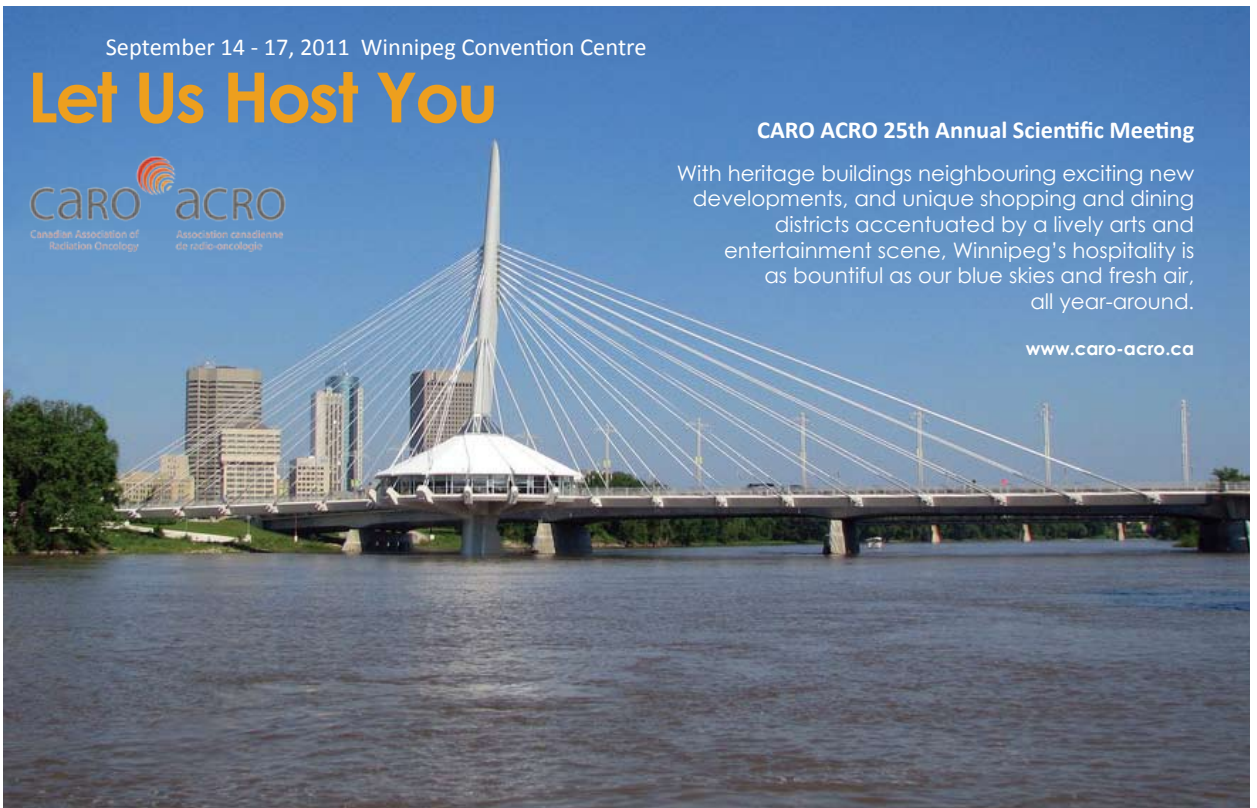
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POSTER ABSTRACTS

- 71** EXTERNAL BEAM RADIOTHERAPY WITH HDR BRACHYTHERAPY BOOST AND ANDROGEN DEPRIVATION FOR PROSTATE CANCER Stacy Miller¹, Joseph Bucci¹, Yaw Chin², David Malouf²; ¹University of British Columbia, Vancouver, BC, ²University of New South Wales, Sydney, NSW, Australia
- 72** CHANGES IN TUMOUR AND UTERINE ANATOMY AND DOSIMETRY DURING MR-GUIDED PULSED DOSE RATE BRACHYTHERAPY (PDR-BT) FOR CERVIX CANCER Audrey Li, John Jezioranski, Jason Xie, Andrea McNiven, Anne Di Tomasso, Judy Quintos, Wilfred Levin, Lee Manchul, Anthony Fyles, Michael Milosevic; Princess Margaret Hospital, Toronto, ON
- 73** SINGLE (15 GY) FRACTION VERSUS TWO FRACTIONS (10GY X 2) HDR BRACHYTHERAPY BOOST FOR LOCALIZED PROSTATE CANCER: COMPARATIVE TOXICITY ANALYSIS Andre-Guy Martin¹, Eric Vigneault¹, William Foster¹, Sylviane Aubin¹, Nathalie Laflamme¹, Luc Beaulieu²; ¹Laval University, Quebec, QC, ²CHUQ-Hôtel-Dieu de Québec, Québec, QC
- 74** DOSE PAINTING IN HDR BRACHYTHERAPY FOR CERVIX CANCER: IMPACT OF BLADDER VOLUME VARIATION ON THE HIGHEST DOSE POINT Francois Bachand, Peter Lim, Rustom Dubash, Conrad Yuen, Wang Hong, Christina Aquino-Parsons; British Columbia Cancer Agency, Vancouver Cancer Centre, Vancouver, BC
- 75** HIGH-DOSE-RATE INTERSTITIAL BRACHYTHERAPY USING INVERSE PLANNING SIMULATED ANNEALING FOR PRIMARY AND RECURRENT GYNAECOLOGIC MALIGNANCIES: CLINICAL EXPERIENCE AND DOSE-VOLUME ANALYSIS Isabelle Thibault¹, Marie-Claude Lavallée¹, Nathalie Laflamme², Éric Vigneault¹; ¹CHUQ - L'Hôtel-Dieu de Québec, Québec, QC, ²Université Laval, Québec, QC
- 76** THE IMPACT OF SIGNIFICANT INTRAPROSTATE CALCIFICATION ON DOSIMETRY FOR I¹²⁵ BRACHYTHERAPY Stacy Miller¹, Joseph Bucci², Brad Oborn³; ¹University of British Columbia, Vancouver, BC, ²University of New South Wales, Sydney, NSW, ³University of Wollongong, Wollongong, NSW
- 77** THREE-YEAR OUTCOMES OF A CANADIAN MULTI-CENTRE STUDY OF ACCELERATED PARTIAL BREAST IRRADIATION (APBI) USING CONFORMAL RADIATION THERAPY Tanya Berrang¹, Ivo Olivotto¹, Tarnjit Parhar¹, Alan Nichol¹, Jonathan Sussman², John Cho³, Islam Mohamed⁴, Elaine Wai¹, Do-Hoon Kim², Scott Tyldesley⁴, Pauline Truong¹, Jeevin Shahi¹, Tim Whelan²; ¹British Columbia Cancer Agency, Victoria, BC, ²Juravinski Cancer Centre, Hamilton, ON, ³Princess Margaret Hospital, Toronto ON, ⁴British Columbia Cancer Agency, Vancouver, BC
- 78** RESULTS FROM A PILOT EXERCISE PROGRAM FOR BREAST CANCER PATIENTS WITH CHRONIC BREAST OR CHEST-WALL PAIN Philip Wong, Lisa Masse, Sabrina Pillay, Ilka Lowensteyn, Marla Gold, Steven Grover, Christine Lambert, Tarek Hijal, Thierry Muanza; McGill University, Montreal, QC
- 79** POPULATION-BASED OUTCOMES IN PATIENTS TREATED WITH MASTECTOMY FOR DUCTAL CARCINOMA IN SITU Dawn Owen¹, Scott Tyldesley², Elaine S. Wai³, Caroline Speers¹, Cheryl Alexander⁴, Pauline Truong², Alan Nichol³; ¹British Columbia Cancer Agency, Vancouver, BC, ²University of British Columbia, Vancouver, BC, ³University of British Columbia, Victoria, BC, ⁴British Columbia Cancer Agency, Vancouver Island Centre, Victoria, BC
- 80** EVALUATING THE RELATIONSHIP BETWEEN ANTIPERSPIRANT, SKIN REACTION AND QUALITY OF LIFE IN WOMEN RECEIVING RADIATION THERAPY FOR BREAST CANCER Linda Watson¹, Donna Gies², Bejoy Thomas¹, Jennifer Anderson¹; ¹University of Calgary, Calgary, AB, ²Tom Baker Cancer Centre, Calgary, AB
- 81** TOPOGRAPHY OF LOCOREGIONAL LYMPH NODE METASTASES AND ITS IMPACT ON THE RADIOTHERAPEUTIC CLINICAL TARGET VOLUME IN PATIENTS WITH LOCALLY ADVANCED BREAST CANCER Robert Dinniwell, Grace Lee, John Cho; Princess Margaret Hospital, University of Toronto, Toronto, ON
- 82** DOSE REDUCTION TO THE LEFT ANTERIOR DESCENDING ARTERY AND THE HEART BY MODERATE DEEP INSPIRATION BREATH HOLD TECHNIQUE VIA ACTIVE BREATHING CONTROL FOR LEFT SIDED BREAST IRRADIATION Wei Wang, Anthony Fyles, Tom Purdie, Mohammad Rahman, Andrea Marshall; Princess Margaret Hospital, University of Toronto, Toronto, ON
- 83** PRELIMINARY RESULTS OF A PROSPECTIVE CLINICAL TRIAL EVALUATING INTENSITY-MODULATED RADIATION THERAPY DELIVERED BY HELICAL TOMOTHERAPY FOR LOCOREGIONAL BREAST RADIATION INCLUDING THE INTERNAL MAMMARY NODES Jean-Michel Caudrelier¹, Bernd Esche², Lynn Montgomery¹, Sopenar Tep², Liz O'Neil², Joanne Meng², Laval Grimard²; ¹Ottawa Hospital

Cancer Centre, Ottawa, ON, ²University of Ottawa, Ottawa, ON

- 84** INTER-OBSERVER COMPARISON OF BREAST SEROMA DELINEATION BETWEEN CLINICAL SPECIALIST RADIATION THERAPIST AND RADIATION ONCOLOGIST Grace Lee, Anthony Fyles, John Cho, Alexandra Easson, Louis Fenkell, Nicole Harnett, Lee Manchul, Phillip Tran, Tim Wang, Robert Dinniwell; Princess Margaret Hospital, Toronto, ON
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- 85** THE IMPACT OF POST MASTECTOMY RADIATION THERAPY ON MALE BREAST CANCER PATIENT – THE LONDON REGIONAL CANCER PROGRAM EXPERIENCE Edward Yu¹, Hiromichi Suzuki², Tarek Elfiki³, Jawaid Younus⁴, Larry Stitt¹, Garry Yau⁴, Olga Vujovic⁴, Francisco Perera¹, Michael Lock⁴, Patricia Tai⁵; ¹London Regional Cancer Centre, London, ON, ²Seirei Hamamatsu General Hospital, Hamamatsu, Shizuoka, Japan, ³Windsor Regional Cancer Centre, Windsor, ON, ⁴University of Western Ontario, London, ON, ⁵University of Saskatchewan, Regina, SK
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- 86** IPSILATERAL BREAST TUMOUR RELAPSES: ANALYZING OUTCOMES AMONG COHORTS CLASSIFIED CLINICALLY AS 'TRUE RECURRENCE' VERSUS 'NEW PRIMARY' Valerie Panet-Raymond¹, Pauline T Truong¹, Rachel E McDonald², Cheryl Alexander², Louetta A Ross², Aleata Ryhorchuk², Peter Watson²; ¹University of British Columbia, Victoria, BC, ²British Columbia Cancer Agency, Vancouver Island Centre, Victoria, BC
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- 87** IS BREAST RECONSTRUCTION AS PART OF TREATMENT FOR LOCALLY ADVANCED BREAST CANCER ASSOCIATED WITH DELAY IN RADIOTHERAPY? A FIVE YEAR SURVEY FROM BRITISH COLUMBIA Andrea Lo, Winkle Kwan, Hannah Carolan; University of British Columbia, Vancouver, BC
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- 88** LIFESTYLE INTERVENTIONS AND THE RISK OF BREAST CANCER RECURRENCE Nafisha Lalani¹, Sara Urowitz², Pamela Catton²; ¹University of Toronto, Toronto, ON, ²Princess Margaret Hospital, University of Toronto, Toronto, ON
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- 89** TITANIUM AND TANTALUM SURGICAL CLIPS FOR LOCALIZING THE TUMOUR BED AFTER BREAST SURGERY Alan Nichol, Carys Thomas, Rona Cheifetz, Noelle Davis, Kuusk Urve, Gregor McGregor, Karl Otto, Ryan Woods, Jason Hui, Isabelle Ruest, Lorraine Gedde; British Columbia Cancer Agency, Vancouver Centre, Vancouver, BC
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- 90** OUTCOMES AFTER WHOLE BRAIN RADIOTHERAPY AND RE-IRRADIATION IN PATIENTS WITH METASTATIC BREAST CANCER IN THE TRASTUZUMAB ERA Irene Karam, Alan Nichol, Scott Tyldesley; British Columbia Cancer Agency, Vancouver, BC
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- 91** UNINTENTIONAL INCLUSION OF INTERNAL MAMMARY CHAIN IN STANDARD BREAST TANGENT VOLUMES DURING ADJUVANT RADIATION FOR NODE POSITIVE BREAST CANCER: IS A TRUE RANDOMIZATION POSSIBLE? Abhirami Hallock, Olga Vujovic; University of Western Ontario, London, ON
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- 92** OUTCOMES OF T1N0 TRIPLE NEGATIVE BREAST CANCER PATIENTS TREATED WITH BREAST CONSERVING THERAPY VERSUS MASTECTOMY Julie Francisco Cuartero, John Hanson, Zsolt Gabos, John Mackey, John Deschenes, David Lesniak, Siham Sabri, Bassam Abdulkarim; University of Alberta, Edmonton, AB
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- 93** POPULATION BASED STAGE, TREATMENT AND OUTCOMES FOR PATIENTS WITH BREAST CANCER IN A CANADIAN PROVINCE Scott Tyldesley¹, Robert Olson², Alan Nichol², Caroline Speers¹, Stephen Chia¹, Chris Bajdik¹, Andy Coldman¹; ¹British Columbia Cancer Agency, Vancouver, BC, ²University of British Columbia, Vancouver, BC
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- 94** CAN HISTOPATHOLOGICAL FACTORS OF THE RECURRENT TUMOUR BE USED TO PROGNOSTICATE PATIENTS WITH IPSILATERAL BREAST TUMOUR RECURRENCES? Valerie Panet-Raymond¹, Pauline T Truong¹, Cheryl Alexander², Mary Lesperance³, Rachel McDonald², Louetta A Ross², Aleata Ryhorchuk², Peter H Watson¹; ¹University of British Columbia, Victoria, BC, ²British Columbia Cancer Agency, Vancouver Island Centre, Victoria, BC, ³University of Victoria, Victoria, BC
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- 95** ACCURACY AND COMPLETENESS OF PATHOLOGY REPORTING - IMPACT ON PARTIAL BREAST IRRADIATION ELIGIBILITY Jean-Philippe Pignol, Jennel Zeppieri, Eileen Rakovitch, Carole Chartier, Wedad Hanna; Sunnybrook Health Sciences Centre, University of Toronto, Toronto, ON
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- 96** NEOVASCULAR GLAUCOMA FOLLOWING STEREOTACTIC RADIOTHERAPY FOR JUXTAPAPILLARY CHOROIDAL MELANOMA: HISTOPATHOLOGICAL-DOSIMETRIC FINDINGS Arjun Sahgal¹, Bruno Fernandes¹, Daniel Weisbrod¹, Yeni Yucel², Matthew Followell¹, David Payne¹, Hugh McGowan³, Rand Simpson¹, Wei Xu¹, Mostafa Heydarian³, Normand Laperriere¹; ¹University of Toronto, Toronto, ON, ²Department of Ophthalmology and Vision Sciences, Toronto, ON, ³Princess Margaret Hospital,

Toronto, ON

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- 97** **IMPACT OF IMMOBILIZATION ON INTRA-FRACTION MOTION FOR SPINE STEREOTACTIC BODY RADIOTHERAPY (SBRT) USING CONE-BEAM CT (CBCT)** Winnie Li¹, Arjun Sahgal², Matthew Foote², Barbara-Ann Millar², David Jaffray², Daniel Letourneau²; ¹Princess Margaret Hospital, Toronto, ON, ²University of Toronto, Toronto, ON
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- 98** **18F-FDOPA POSITRON EMISSION TOMOGRAPHY FOR TARGET DELINEATION IN HIGH-GRADE GLIOMAS** Fred Hsu¹, Alan Nichol¹, Don Wilson¹, Susan Zhang¹, Roy Ma¹, Michael McKenzie¹, Francois Bernard²; ¹British Columbia Cancer Agency, Vancouver, BC, ²University of British Columbia, Vancouver, BC
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- 99** **PROGNOSTIC FACTORS AND PATTERNS OF RECURRENCE IN PATIENTS WITH ADULT MEDULLOBLASTOMA** Andra Krauze¹, Samir Patel¹, Sunita Ghosh¹, Wilson Roa¹, Bassam Abdulkarim¹, Albert Murtha¹, Mark Hamilton²; ¹Cross Cancer Institute, Edmonton, AB, ²Tom Baker Cancer Centre, Calgary, AB
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- 100** **UPFRONT OBSERVATION VERSUS RADIATION FOR ADULT PILOCYTIC ASTROCYTOMA: THE PRINCESS MARGARET HOSPITAL EXPERIENCE** Adrian Ishkanian, Normand Laperriere, Wei Xu, Barbara-Ann Millar, Cynthia Ménard, David Payne, Arjun Sahgal; Princess Margaret Hospital, University of Toronto, Toronto, ON
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- 101** **PSEUDOPROGRESSION OF VESTIBULAR SCHWANNOMAS AFTER FRACTIONATED STEREOTACTIC RADIATION THERAPY** Fazilat Mohammed, Michael Schwartz, Alex Lightstone, David Beachey, May Tsao; University of Toronto, Toronto, ON
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- 102** **PROGNOSTIC FACTORS AND OUTCOMES FOR ELDERLY PATIENTS WITH GLIOBLASTOMA MULTIFORME** Normand Laperriere, Cynthia Ménard, Barbara-Ann Millar, Arjun Sahgal, David Payne, Warren Mason; Princess Margaret Hospital, University of Toronto, Toronto, ON
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- 103** **RE-IRRADIATION SPINAL CORD TOLERANCE** Arjun Sahgal¹, Lijun Ma², Vivian Weinberg², Iris Gibbs³, Sam Chao⁴, Ung-Kyu Chang⁵, Maria Werner-Wasik⁶, Liliyanna Angelov⁴, Eric Chang⁷; ¹University of Toronto, Toronto, ON, ²University of California, San Francisco, CA, ³Stanford University, Palo Alto, CA, ⁴Cleveland Clinic, Cleveland, OH, ⁵Institute of Radiation and Medical Science, South Korea, ⁶Thomas Jefferson University Hospital, Philadelphia, PA, ⁷MD Anderson Cancer Centre, Houston, TX
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- 104** **RADIOTHERAPY (RT) WITH CONCOMITANT AND ADJUVANT TEMOZOLOMIDE (TMZ) IN GLIOBLASTOMA MULTIFORME (GBM) - LONG TERM RESULTS FROM A SINGLE UNITED KINGDOM CENTRE** Brian Haylock¹, David Husband², Aditya Shenoy², Helen Wong¹, Andrew Brodbelt², Carol Walker²; ¹Clatterbridge Centre for Oncology, Bebington, Wirral, UK, ²University of Liverpool, Wirral, Merseyside, UK
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- 105** **ANALYSIS OF THREE PROGNOSTIC INDEXES AND PROGNOSTIC FACTORS IN PATIENTS TREATED WITH RADIATION THERAPY FOR MELANOMA BRAIN METASTASES** Marc Gaudet¹, Pascale St-Amour¹, Joel Claveau¹, Anne Dagnault²; ¹Université Laval, Québec, QC, ²CHUQ, Hôtel-Dieu de Québec, Québec, QC
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- 106** **EMERGING RADIOSURGERY ALTERNATIVES** Jon-Paul Voroney; University of Calgary, Calgary, AB
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- 107** **VOLUMETRIC ANALYSIS COMPARING 3D QUANTIFICATION VERSUS RECIST AND WHO CRITERIA IN PATIENTS WITH BRAIN METASTASES** Jean-Marc Bourque, Laura Wilson, Grace Parraga, Glenn Bauman; University of Western Ontario, London, ON
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- 108** **QUALITY ASSURANCE DURING THE COURSE OF PELVIC INTENSITY-MODULATED RADIATION THERAPY FOR GYNAECOLOGICAL CANCERS: AN EVALUATION WITH CONE-BEAM CT (CBCT)** Francois Bachand, Peter Lim, Yue Qiu, Carol Marlowe, Vivian Cheung, Christina Aquino-Parsons; British Columbia Cancer Agency, Vancouver Cancer Centre, Vancouver, BC
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- 109** **A MODEL TO IDENTIFY PATIENTS LIKELY TO FAIL DOSIMETRY CONSTRAINTS FOR PARTIAL BREAST RADIOTHERAPY (PBRT) PLANNING** Tarnjit Parhar, Tanya Berrang, Cathy Lacey, Colleen McGahan, Ivo Olivotto; British Columbia Cancer Agency, Vancouver Island Centre, Victoria, BC
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- 110** **DOSIMETRIC COMPARISON OF INTENSITY-MODULATED RADIATION THERAPY, HELICAL TOMOTHERAPY, VOLUMETRIC MODULATED ARC THERAPY, AND 3D-CONFORMAL RADIOTHERAPY IN THE POST-OPERATIVE TREATMENT OF GASTRIC CANCER PATIENTS** Shaun Loewen, Kurian Joseph, Nawaid Usmani, Keith Tankel, Diane Severin, Tirath Nijjar, Heather Warkentin, Alasdair Syme, David Williams, Colin Field; University of Alberta, Edmonton, AB
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- 111** A LEARNING MODULE ON HEAD AND NECK ANATOMY FOR RESIDENTS IN RADIATION ONCOLOGY: A NEEDS ASSESSMENT Fleure Gallant¹, Lorraine Portelance¹, Hani Al Halabi¹, Joanne Alfieri¹, Rolina Al-Wassia¹, Khalil Sultanem², Fabio L. Cury¹; ¹McGill University Health Centre, Montreal, QC, ²Jewish General Hospital, Montreal, QC
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- 112** INCORPORATING MULTI-SOURCE FEEDBACK INTO A RADIATION ONCOLOGY RESIDENT ASSESSMENT SYSTEM Meredith Giuliani, Joyce Nyhof-Young, Christine Massey, Barbara-Ann Millar, Pamela Catton; Princess Margaret Hospital, University of Toronto, Toronto, ON
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- 113** DON'T BELIEVE EVERYTHING YOU READ: THE QUALITY OF LUNG CANCER INFORMATION ON THE INTERNET Paris-Ann Gfeller-Ingledew, Diala El-Zammar; University of British Columbia, Vancouver, BC
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- 114** UNDERGRADUATE ONCOLOGY TEACHING: THE MCGILL UNIVERSITY EXPERIENCE George Shenouda¹, Fabio Cury², Donald Boudreau³, Joyce Pickering³, Henry Shibata³, Carolyn Freeman³; ¹Centre Univ de santé McGill, ²Hôp Gén de Montréal, Montréal, QC, Canada, ³McGill University, Montreal, QC
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- 115** THE EXPERIENCE OF CANCER THROUGH THE LEARNER'S LENS Paris-Ann Gfeller-Ingledew; University of British Columbia, Surrey, BC
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- 116** PEDIATRIC RADIATION ONCOLOGISTS' VIEWS OF INFORMED CONSENT AND JOINT DECISION MAKING Robert Olson, Juliette Hukin, Suzanne Steenburgh, Rod Rassekh, Anita Ho, Mary Anne Bobinski, Karen Goddard; University of British Columbia, Vancouver, BC
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- 117** 2009 CANADIAN RADIATION ONCOLOGY RESIDENT SURVEY Brock Debenham¹, Robyn Banerjee², Alysa Fairchild¹, George Dundas¹, Theresa Trotter², Don Yee¹; ¹University of Alberta, Edmonton, AB, ²University of Calgary, Calgary, AB
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- 118** WHAT ARE MY OPTIONS FOR BREAST CANCER TREATMENT? Ewa Szumacher¹, Laura D'Alimonte¹, Jan Angus², Barbara Soren³, Lawrence Paszat¹; ¹Odette Cancer Centre, Toronto, ON, ²University of Toronto, Toronto, ON, ³Independent Consultant, Education, Toronto, ON
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- 119** THE DEVELOPMENT OF A SCREENING TOOL TO FACILITATE THE PROVISION OF QUALITY PATIENT FOCUSED SUPPORTIVE CARE WITHIN A RADIATION THERAPY DEPARTMENT John Maamoun¹, Margaret Fitch¹, Ruth Barker², Sheila Robson¹, Carol Gillies¹, Angela Turner¹, Irene Lange-Mechlen¹, Sandra Gardner¹, Alex Kiss²; ¹Odette Cancer Centre, Toronto, ON, ²Sunnybrook Health Sciences Centre, Toronto, ON
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- 120** THE INFORMATIONAL NEEDS OF PROSTATE CANCER PATIENTS REGARDING ADJUVANT OR SALVAGE RADIOTHERAPY: SOONER OR LATER? THE DETERMINANTS OF HEALTHCARE RESEARCH PROJECT Sara Hahn¹, Luran Adams², ²Laura D'Alimonte, Ewa Szumacher²; ¹University of Toronto, Toronto, ON, ²Odette Cancer Centre, Sunnybrook Health Sciences Centre, Toronto, ON
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- 121** **WITHDRAWN** AN EDUCATIONAL PROGRAM IN ONCOLOGY FOR FAMILY MEDICINE TRAINEES Jonathan Sussman; Juravinski Cancer Centre, Hamilton, ON
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- 122** DESIGN AND IMPLEMENTATION OF A MULTICENTRE ELECTRONIC INCIDENT LEARNING SYSTEM FOR RADIATION TREATMENT Brenda Clark¹, Jodi Ploquin¹, Marilyn Gackle², Peter Dunscombe²; ¹The Ottawa Hospital Cancer Centre, Ottawa, ON, ²Tom Baker Cancer Centre, Calgary, AB
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- 123** IN VIVO RADIOTHERAPY ENHANCEMENT WITH GLUCOSE-CAPPED GOLD NANOPARTICLES Wilson Roa¹, Xiaohong Yang¹, Dejuan Yang¹, Xiaoyan Yang², James Xing¹, Jie Chen²; ¹Cross Cancer Institute, Edmonton, AB, ²University of Alberta, Edmonton, AB
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- 124** NOVEL TUMOUR THERAPY USING ULTRASOUND-ACTIVATED MICROBUBBLES AS VASCULAR DISRUPTING AGENTS Amanda Caissie¹, Justin Lee¹, Raffi Karshafian², Melissa Furukawa¹, Sheldon Kwok¹, Anoja Giles³, Yu-qing Li³, Shun Wong¹, Gregory J. Czarnota¹; ¹University of Toronto, Toronto, ON, ²Ryerson University, Toronto, ON, ³Sunnybrook Health Sciences Centre, Toronto, ON
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- 125** **RAZCER** CYTOTOXICITY AND IN VIVO TOXICITY OF GAZ-F, A GLUCOSE-AZOMYCIN CONSTRUCT FOR RADIOSENSITIZATION OF HYPOXIC TUMOURS Wilson Roa, Jennifer Yang, Piyush Kumar, David Murray, Leonard Wiebe; Cross Cancer Institute, Edmonton, AB
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- 126** GOLD NANOPARTICLE RADIOSENSITIZATION OF SEED BRACHYTHERAPY Jean-Philippe Pignol, Eli Lechtman, Brian M Keller, Ananth Ravi, Niladri Chattopadhyay, Zhongli Cai, Raymond Reilly; University of Toronto, Toronto, ON
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- 127** **IN VIVO EVALUATION OF INHALABLE EFFERVESCENT NANOPARTICLES IN THE TREATMENT OF LUNG CANCER** Wilson Roa¹, Azarmi Shirzad², MHD Kamal Al-Hallak³, Tony Magliocco¹, Warren Finlay⁴, Raimar Lobenberg⁴; ¹Cross Cancer Institute, Edmonton, AB, ²University of Alberta/Tabriz University of Medical Sciences, Edmonton, AB, ³University of Alberta/Damascus University, Edmonton, AB, ⁴University of Alberta, Edmonton, AB
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- 128** **CHARACTERIZATION OF INTERACTION BETWEEN TUMOUR NECROSIS FACTOR-RELATED APOPTOSIS-INDUCING LIGAND (TRAIL) AND GOLD NANOPARTICLES EFFECTING CYTOTOXICITY OF IN VITRO GLIOMA TUMOUR CELLS** Bryan Brunet¹, Linghong Guo², Nadeem Pervez¹, Wilson Roa¹; ¹University of Alberta, Edmonton, AB, ²Cross Cancer Institute, Edmonton, AB
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- 129** **MICROCALORIMETRIC ASSESSMENT OF INHALED IMMUNO-TARGETED NANOPARTICLES FOR LUNG CANCER TREATMENT** Wilson Roa¹, MHD Kamal Al-Hallak², Shirzad Azarmi³, MH Gilzad Kohan⁴, Anwar Anwar-Mohamed⁴, Raimar Lobenberg⁴; ¹Cross Cancer Institute, Edmonton, AB, ²University of Alberta, Edmonton, AB, ³University of Alberta/Tabriz University of Medical Sciences, Edmonton, AB, ⁴University of Alberta, Edmonton, AB
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- 130** **PATTERNS OF NODAL PRESENTATION AND FAILURE IN ANAL CANCER PATIENTS TREATED WITH RADICAL RADIOTHERAPY: A RETROSPECTIVE ANALYSIS** Marcus Foo, Stephen Harrow, Roy Ma, John Hay; British Columbia Cancer Agency, Vancouver, BC
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- 131** **SMALL BOWEL VOLUME IN PELVIS OF PATIENTS RECEIVING RADIOTHERAPY FOR RECTAL CANCER: A MULTIVARIATE ANALYSIS** Junliang Liu, Hongwei Liu, Benjamin Mou, Zoann Nugent; CancerCare Manitoba, Winnipeg, MB
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- 132** **IS NEOADJUVANT HIGH DOSE RATE ENDORECTAL BRACHY THERAPY (HDREBT) ALONE SAFE?** Te Vuong¹, Tamim Niazi¹, Carole Richard², Francois Letellier³, Sender Liberman¹, Gabriella Stroian¹, Gerald Batist¹, Nancy Morin¹, Dawn Anderson¹, Slobodan Devic¹; ¹McGill University, Montreal, QC, ²Universite de Montreal, Montreal, QC, ³Longueuil, QC
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- 133** **OUTCOMES AND TREATMENT FOLLOWING RECURRENCE OF ANAL CARCINOMA AFTER RADICAL RADIOTHERAPY: THE BRITISH COLUMBIA EXPERIENCE** Marcus Foo, Stephen Harrow, Roy Ma, John Hay; British Columbia Cancer Agency, Vancouver, BC
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- 134** **DIFFUSION WEIGHTED MAGNETIC RESONANCE, FDG-PET AND 18F FAZA PET IMAGING IN PREDICTING RESPONSE TO NEO-ADJUVANT CHEMO-RADIOTHERAPY IN OESOPHAGEAL CARCINOMA** Cormac Small¹, Kurian Joseph², McEwan Alexander², Keith Wachowicz², Terence Riauka², Eric Bedard³, Nawaid Usmani², Wilson Roa²; ¹University Hospital Galway, Galway, Ireland, ²Cross Cancer Institute, Edmonton, AB, ³Royal Alexandra Hospital, Edmonton, AB
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- 135** **ACTIVE SURVEILLANCE FOR LOCALIZED PROSTATE CANCER: DEVELOPMENT OF A NOMOGRAM TO PREDICT THE PROBABILITY OF DEFERRED RADICAL TREATMENT** Scott Morgan¹, Karen Thomas², Nicholas van As², Robert Huddart², Alan Horwich², David Dearnaley², Christopher Parker²; ¹University of Ottawa, Ottawa, ON, ²Royal Marsden Hospital, Sutton, Surrey, UK
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- 136** **RECTAL TOXICITY IS RELATED TO RECTAL DOSIMETRY IN I¹²⁵ PERMANENT PROSTATE IMPLANTS: A LONG TERM STUDY IN 1006 PATIENTS IN BRITISH COLUMBIA** Mira Keyes¹, Ingrid Spadinger², Mitchell Liu¹, Thomas Pickles¹, Michael McKenzie¹, Howard Pai³, Ross Halperin⁴, Winkle Kwan⁵, Alexander Agranovich⁵, Vince Lapointe¹, Amy Hayden¹, W. James Morris¹; ¹University British Columbia, British Columbia Cancer Agency, Vancouver, BC, ²British Columbia Cancer Agency, Vancouver Cancer Centre, Vancouver, BC, ³University British Columbia, British Columbia Cancer Agency, Victoria, BC, ⁴University British Columbia, Kelowna, BC, ⁵University British Columbia, Surrey, BC
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- 137** **CREATION OF A RTOG COMPLIANT PROSTATE BED ATLAS ASSISTED BY A CT-BASED DEFORMABLE REGISTRATION CONTOURING SOFTWARE SYSTEM** George Rodrigues¹, Jeremiah Hwee², Alexander Louie², Jon Piper³, Glenn Bauman², Stewart Gaede²; ¹London Regional Cancer Program, London, ON, ²University of Western Ontario, London, ON, ³Mimvista Inc., Cleveland, OH
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- 138** **INFLUENCE OF ABDOMINAL ADIPOSITY, WAIST CIRCUMFERENCE AND BODY MASS INDEX ON CLINICAL AND PATHOLOGICAL FINDINGS IN PATIENTS TREATED WITH RADIOTHERAPY FOR LOCALIZED PROSTATE CANCER** Thomas Zilli¹, Thu Van Nguyen¹, Jean-Paul Bahary¹, Jean-Pierre Guay¹, Miguel Chagnon², Alix Dufresne¹, Daniel Taussky¹; ¹Centre hospitalier de l'Université de Montréal, Montréal, QC, ²Université de Montréal, Montréal, QC
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- 139** PROSPECTIVE STUDY OF EXTREME HYPOFRACTIONATED RADIOTHERAPY (35 GY IN FIVE FRACTIONS) FOR LOW-RISK PROSTATE CANCER: TOXICITY RESULTS Harvey Quon¹, Patrick Cheung¹, Angela Cesta¹, Lori Holden¹, Colin Tang¹, Geordi Pang¹, Gerard Morton¹, Parminder Basran², Romeo Tirona¹, Alexandre Mamedov¹, Andrea Deabreu¹, Andrew Loblaw¹; ¹University of Toronto, Toronto, ON, ²Odette Cancer Centre, Toronto, ON
- 140** HYPOFRACTIONATED EXTERNAL BEAM RADIOTHERAPY WITHOUT ANDROGEN DEPRIVATION FOR INTERMEDIATE RISK PROSTATE CANCER: PRELIMINARY RESULTS AND TOXICITY ANALYSIS Alan Dal Pra, Sergio Faria, Fabio Cury, Marc David, Marie Duclos, George Shenouda, Luis Souhami; McGill University, Montreal, QC
- 141** INTRAOPERATIVE DEXAMETHASONE REDUCES THE RATE OF ACUTE URINARY RETENTION AFTER I¹²⁵ PROSTATE BRACHYTHERAPY Dawn Owen¹, Thomas Pickles², Mira Keyes²; ¹British Columbia Cancer Agency, Vancouver, BC, ²Univeristy of British Columbia, Vancouver, BC
- 142** INTRAFRACTION MOTION DURING EXTREME HYPOFRACTIONATED INTENSITY-MODULATED RADIOTHERAPY FOR PROSTATE CANCER Harvey Quon¹, Patrick Cheung¹, Angela Cesta¹, Lori Holden¹, Colin Tang¹, Geordi Pang¹, Gerard Morton¹, Parminder Basran², Romeo Tirona¹, Alexandre Mamedov¹, Andrea Deabreu¹, Andrew Loblaw¹; ¹University of Toronto, Toronto, ON, ²Odette Cancer Centre, Toronto, ON
- 143** ACUTE AND LATE TOXICITY OF PELVIC RADIOTHERAPY AND CONCOMITANT HYPOFRACTIONATED INTENSITY-MODULATED RADIOTHERAPY BOOST COMBINED WITH HORMONAL THERAPY FOR HIGH-RISK PROSTATE CANCER Harvey Quon¹, Andrew Loblaw¹, Gerard Morton¹, Katharina Sixel¹, Geordi Pang¹, Parminder Basran², Ewa Szumacher¹, Cyril Danjoux¹, Richard Choo³, Gillian Thomas¹, Alex Kiss¹, Andrea Deabreu¹, Patrick Cheung¹; ¹University of Toronto, Toronto, ON, ²Odette Cancer Centre, Toronto, ON, ³Mayo Clinic, Rochester, NY
- ACURA**
- 144** POST-OPERATIVE PROSTATE RADIOTHERAPY: CONFUSION OR SCIENCE? Shawn Malone, Jennifer Croke, Leonard Avruch, Christopher Morash, Eric Belanger, Johanna Spaans, Katherine Underhill, Cathy Kayser; University of Ottawa, Ottawa, ON
- 145** WHOLE PROSTATE D90 AND V100 ARE WEAK PREDICTORS OF BIOCHEMICAL RELAPSE IN 1500 CONSECUTIVE LOW DOSE RATE (LDR) BRACHYTHERAPY IMPLANTS FOR LOW AND INTERMEDIATE RISK PROSTATE CANCER W. James Morris¹, Ingrid Spadinger², Mira Keyes¹, Michael McKenzie¹, Thomas Pickles¹; ¹University of British Columbia, Vancouver, BC, ²British Columbia Cancer Agency, Vancouver Cancer Centre, Vancouver, BC
- 146** POSTOPERATIVE RADIOTHERAPY IN PROSTATE CANCER: HIT OR MISS? Jennifer Croke, Shawn Malone, Leonard Avruch, Chris Morash, Eric Belanger, Nicolas Roustan Delatour, Kathryn Underhill, Cathleen Kayser; University of Ottawa, Ottawa, ON
- 147** NEUROENDOCRINE SMALL CELL PROSTATE CANCER: AN INSTITUTIONAL CASE SERIES Tim Lymberiou, Tamim Niazi, Boris Bahoric, Khusraw Sabit, Alan Dal Pra, Sergio Faria, Marie Duclos, George Shenouda, Te Vuong, Luis Souhami; McGill University, Montreal, QC
- 148** TRANSRECTAL ULTRASOUND PROSTATE VOLUME ESTIMATION: HOW MUCH IT CAN BE TRUSTED WHEN SELECTING PATIENTS FOR BRACHYTHERAPY? Alan Dal Pra, Murilo Luz, Simone Chevalier, Armen Aprikian, Eleonora Scarlata, Lucie Hamel, Fabio Cury; McGill University, Montreal, QC
- 149** A PROVINCIAL POPULATION BASED STUDY OF THE TREATMENT OF PATIENTS WITH PROSTATE CANCER Scott Tyldesley¹, Michael Peacock², Charmaine Kim Sing², William James Morris², Alan So², Michael Carter², Thomas Pickles²; ¹British Columbia Cancer Agency, Vancouver, BC, ²University of British Columbia, Vancouver, BC
- ACURA**
- 150** STATISTICAL PERFORMANCE OF AN ATLAS-BASED DEFORMABLE CONTOURING SYSTEM TO GENERATE RTG COMPLIANT PROSTATE BED TARGET AND NORMAL TISSUE CONTOURS George Rodrigues¹, Jeremiah Hwee², Alexander Louie², Jon Piper³, Glenn Bauman², Stewart Gaede²; ¹London Regional Cancer Program, London, ON, ²University of Western Ontario, London, ON, ³Mimvista Inc., Cleveland, OH
- 151** INTER-OBSERVER VARIABILITY USING ULTRASOUND-BASED IMAGE GUIDANCE OF THE PROSTATE Alan Dal Pra, Arman Sarfehnia, Horacio Patrocinio, Fabio Cury; McGill University, Montreal, QC
- 152** OAR AND PTV PARAMETERS, AND DVH ANALYSES, AS PREDICTORS OF ACUTE TOXICITY IN PROSTATE RADIOTHERAPY Andre Fleck, Dilip Panjwani, Katrina Flemming, Sherry Soliman, Rob Barnett, Darin Gopaul, Pierre Fortin, Ramana Rachakonda; Grand River Regional Cancer Centre, Kitchener, ON

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- 153** **PROGNOSTIC SIGNIFICANCE OF LYMPHOVASCULAR INVASION IN RADICAL PROSTATECTOMY SPECIMENS** Jonathan Ng, Aamer Mahmud, Brenda Bass, Michael Brundage; Queen's University, Kingston, ON
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- 154** **EFFECT OF CONFORMAL RADIATION THERAPY FOR LOCALIZED PROSTATE CANCER ON HEMOGLOBIN AND TESTOSTERONE LEVELS** Mohammad Golfam, Rajiv Samant, Shawn Malone, Libni Eapen; Ottawa General Hospital, Ottawa, ON
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- 155** **COMPARISON OF INTRA-TUMOURAL IMMUNE INFILTRATES BETWEEN INDEX AND IPSILATERAL BREAST TUMOUR RECURRENCES (IBTR)** Valerie Panet-Raymond¹, Pauline T. Truong¹, Nathan West², Cheryl Alexander³, Sindy Babinszky², Katy Milne², Louetta A. Ross³, Aleata Ryhorchuk³, Steven Loken⁴, Peter Watson²; ¹University of British Columbia, Victoria, BC, ²Deeley Research Centre, British Columbia Cancer Agency, Victoria, BC, ³British Columbia Cancer Agency, Vancouver Island Centre, Victoria, BC, ⁴Nanaimo Regional Hospital, Nanaimo, BC
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- 156** **INTENSITY-MODULATED RADIOTHERAPY AS AN ALTERNATIVE TO BRACHYTHERAPY BOOST FOR GYNECOLOGICAL CANCERS** Fleur Huang¹, Philip Chan¹, Jing Yan², Janet Paterson², Wilfred Levin¹, Lee Manchul¹, Young-Bin Cho¹, Michael Milosevic¹, Anthony Fyles¹; ¹University of Toronto, Princess Margaret Hospital, Toronto, ON, ²Princess Margaret Hospital, Toronto, ON
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- 157** **ACUTE TOXICITY PROFILE DURING PELVIC INTENSITY-MODULATED RADIATION THERAPY FOR GYNAECOLOGICAL CANCERS: A COMPARISON WITH 3D CONFORMAL IRRADIATION** Francois Bachand¹, Peter Lim¹, Stephen Harrow², Sheri Lomas¹, Christine Alexander¹, Christina Aquino-Parsons¹; ¹British Columbia Cancer Agency, Vancouver Cancer Centre, Vancouver, BC, ²Beatson West of Scotland Cancer Centre, Glasgow, Lanarkshire, UK
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- 158** **WEB-BASED SYNOPTIC REPORTING FOR GYNECOLOGIC RADIATION ONCOLOGISTS: AN ALBERTA INITIATIVE** Nikhilesh G Patil², Corinne Doll², Prafull Ghatge², Sarah Kunschuh³, Walley Temple², Peter Craighead³; ¹University of Toronto, Toronto, ON, ²University of Calgary, Calgary, AB, ³Alberta Health Services, Calgary, AB
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- 159** **SALVAGE TREATMENT OF CENTRAL PELVIC RECURRENCE FOR UTERINE CERVICAL CANCER** Lara Hathout¹, Philippe Després², Thu Van Nguyen², Diane Provencher², Pierre Drouin², Philippe Gauthier², Marjory Jolicoeur²; ¹Université de Montréal, Montréal, QC, ²CHUM, Université de Montréal, Montréal, QC
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- 160** **OUTCOMES OF PROTON RADIATION THERAPY FOR PERIPAPILLARY CHOROIDAL MELANOMA AT THE BRITISH COLUMBIA CANCER AGENCY** Eric Tran, Thomas Pickles, Katherine Paton, Roy Ma; University of British Columbia, Vancouver, BC
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- 161** **COMPARISON OF PROPHYLACTIC AND URGENT PERCUTANEOUS GASTROSTOMY TUBE PLACEMENT IN PATIENTS TREATED WITH COMBINED RADIATION AND CHEMOTHERAPY FOR HEAD AND NECK CANCER** David Berlach, Nhu Tram Nguyen, Hani Al Halabi, Fabio Cury, George Shenouda; McGill University Health Centre, Montreal, QC
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- 162** **ASSESSMENT OF MICROSCOPIC DISEASE IN ORAL TONGUE CANCER USING WHOLE MOUNT HISTOPATHOLOGICAL TECHNIQUES: IMPLICATIONS FOR THE TREATMENT OF HEAD AND NECK CANCERS** Sorcha Campbell¹, Dan Markel¹, Dan Vena¹, Simon Raphael¹, Kevin Higgins², Danny Ennepekides¹, Eric Morgen¹, Ghassan Allo¹, Martin Yaffe¹, Ian Poon¹; ¹University of Toronto, Toronto, ON, ²Odette Cancer Centre, Toronto, ON
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- 163** **INTER-OBSERVER AND INTRA-OBSERVER TARGET VOLUME DELINEATION VARIABILITY IN OROPHARYNGEAL CANCER PATIENTS WITH SIGNIFICANT DENTAL ARTIFACT ON CT** Alexander Louie¹, Varagur Venkatesan², Ericka Wiebe¹, Nancy Read¹, Alex Hammond¹, George Rodrigues¹, Keng Yeow Tay¹, Derek Ho¹, Irene Gulka¹, Kevin Fung²; ¹University of Western Ontario, London, ON, ²London Regional Cancer Program, London, ON
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- 164** **HEAD AND NECK CANCER SPECIFIC SURVIVAL BASED ON SOCIOECONOMIC STATUS IN ASIAN-PACIFIC ISLANDERS** Karen Chu¹, Sarah Shema², Simon Wu³, Scarlett Gomez⁴, Ellen Chang⁴, Quynh Thu Le³; ¹Stanford University Medical Centre, Palo Alto, CA, ²Cancer Prevention Institute of California, Fremont, CA, ³Stanford Cancer Centre, Stanford, CA, ⁴Stanford University School of Medicine, Fremont, CA
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- 165** **CERVICAL LYMPH NODE METASTASES FROM UNKNOWN PRIMARY CANCER: A SINGLE-INSTITUTION EXPERIENCE WITH INTENSITY-MODULATED RADIATION THERAPY** Hugo Villeneuve, Phuc Felix Nguyen-Tan, Philippe Després, Fortin Bernard, Edith Fillion, David Donath, Denis Soulières, Louis Guertin, Tarek Ayad, Apostolos Christopoulos; CHUM, Montreal, QC
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- 166** CONFORMAL RADIOTHERAPY IN THE TREATMENT OF ADVANCED JUVENILE NASOPHARYNGEAL ANGIOFIBROMA WITH INTRACRANIAL EXTENSION: AN INSTITUTIONAL EXPERIENCE Santam Chakraborty, Sushmita Ghoshal, Vijay Maruti Patil, Arun Singh Oinam, Suresh C Sharma; Post Graduate Institute of Medical Education and Research, Chandigarh, India
- 167** THE LIMITATIONS OF BONE MATCHING FOR HIGHLY CONFORMAL IRRADIATION OF EARLY GLOTTIC CANCERS John Waldron, Indranil Mallick, Stephen Breen; University of Toronto, Princess Margaret Hospital, Toronto, ON
- 168** ESTHESIONEUROBLASTOMA: PROGNOSTIC FACTORS AND OUTCOMES IN A DEVELOPING COUNTRY Gaurav Bahl, Sarbani Ghosh Laskar, Jai Prakash Agarwal, Ashwini Budrukkar, Tejpal Gupta, Vedang Murthy, Prathamesh Pai, Anil Keith D'Cruz; Tata Memorial Hospital, Mumbai, India
- 169** SALIVARY GLAND TUMOURS: RETROSPECTIVE REVIEW OF THE BRITISH COLUMBIA CANCER AGENCY EXPERIENCE FROM 1999 TO 2008 Ryan Carlson¹, John Wu²; ¹British Columbia Cancer Agency, Vancouver, BC, ²University of British Columbia, Vancouver, BC
- 170** PROGNOSTIC VALUE OF PRIMARY AND NODAL GROSS TUMOUR VOLUMES IN OROPHARYNGEAL SQUAMOUS CELL CARCINOMA TREATED WITH CURATIVE INTENT Tsz Kin Lee, Libni Eapen; University of Ottawa, Ottawa, ON
- 171** IMPACT OF 18F-FDG PET/CT-GUIDED TREATMENT FOR SUSPECTED RECURRENT PAPILLARY THYROID CARCINOMA Kristopher Dennis¹, John Hay², Don Wilson²; ¹British Columbia Cancer Agency, Vancouver, Vancouver, BC, ²University of British Columbia, Vancouver, BC
- 172** AN EXAMINATION OF THE INCIDENCE AND TREATMENT OF BRAIN METASTASES AFTER PROPHYLACTIC CRANIAL IRRADIATION (PCI) FOR SMALL CELL LUNG CANCER (SCLC) Mandip Khaira¹, Christopher W. Lee², Michele Joffres³, Devin Schellenberg¹; ¹University of British Columbia, Surrey, BC, ²Division of Medical Oncology, Surrey, BC, ³Simon Fraser University, Burnaby, BC
- 173** **ELEKTA** IMPROVED SURVIVAL FOR ELDERLY PATIENTS WITH STAGE I NSCLC: A POPULATION-BASED TIME-TREND ANALYSIS IN THE STEREOTACTIC BODY RADIOTHERAPY ERA David Palma¹, Otto Visser², Frank Lagerwaard¹, Suresh Senan¹; ¹VU University Medical Centre, Amsterdam, Netherlands, ²Comprehensive Cancer Centre, Amsterdam, Netherlands
- 174** PROPHYLACTIC IRRADIATION OF INTERVENTION SITES IN MALIGNANT PLEURAL MESOTHELIOMA Marie-Anne Froment¹, Éric Fréchette², Anne Dagnault¹; ¹CHUQ, Hôtel-Dieu de Québec, Québec, QC, ²Université Laval, Québec, QC
- 175** FRAMELESS STEREOTACTIC BODY RADIOTHERAPY FOR LUNG TUMOURS WITH AN INTRAFRACTION CONE BEAM COMPUTED TOMOGRAPHY Darindra Gopaul, Bryan Schaly, Dilip Panjwani, Runqing Jiang, Allison Mills, Nancy Kelly, Rob Barnett; Grand River Regional Cancer Centre, Kitchener, ON
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