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Canadian Association of
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in partnership with  **CAMRT**  **ACTRM**



CARO Virtual Scientific Meeting

in partnership with **CAMRT**

Equity in Radiation Oncology: Patients, Providers and Practice

September 23-25, 2020

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General Information

Objectives

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

- describe the future of radiotherapy in a person-centered and equitable system.
- discuss factors which effect equity in training, practice, research, and leadership within and between professions.
- evaluate the factors that impact equity in cancer care.

Board of Directors

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Planning Committee

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Alanah Bergman

Jennifer Croke

Fabio Cury

Corinne Doll

Marc Gaudet

Mary Hooey

Paris-Ann Ingledew

Eric Leung

Brian Liszewski

David Palma

David Wu

Keynote Speakers

Lisa Barbera

Conrad Falkson

Christina Parsons

Sandra Turner

Theme Symposium Speakers

Jennifer Croke

Laura D'Alimonte

Mattias Guckenberger

Paris-Ann Ingledew

Brian Liszewski

David Palma

CARO-ESTRO Theme Symposium Speakers

May Abdel Wahab

Ajay Aggarwal

Chiara Gasparotto

Mary Gospodarowicz

Timothy Hanna

Dorothy Lombe

Danielle Rodin

Eduardo Zubizarreta

Medical Student Research and Mentorship Awardees

Congratulations to:

Sarah Foran, University of Toronto

George Li, University of Toronto

Jim Li, University of British Columbia

Jordan McKenzie, University of British Columbia

Allison Pumputis, Western University

Rawy Shaaban, Queen's University

Robert Henderson, University Saskatchewan

PAMELA CATTON MEMORIAL
FUN RUN OR WALK
 3KM 5KM
 WALK/RUN YOUR OWN WAY BETWEEN
SEPT 13 - 20, 2020
 DRESS LIKE GAMMA GAL OR PHOTON MAN
 FORM A TEAM, RUN SOLO OR MEET WITH
 LOCAL FRIENDS!
PRIZES AWARDED!
 SEND PICTURES TO
 CARO-ACRO@SECRETARIATCENTRAL.COM
 OR USE OUR TAGS ON SOCIAL MEDIA
 #CARO2020 #CAROVSM2020
 \$25 ENTRY FEE PER PERSON

Results will be announced at the closing ceremony.

Accreditation

This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, and approved by Continuing Professional Development, Schulich School of Medicine & Dentistry, Western University. You may claim a maximum of **14.5** hours (credits are automatically calculated). Each participant should claim only those hours of credit that he/she actually spent participating in the educational program.

Canadian Association of Medical Radiation Technologists (CAMRT) – Continuing Education Credit assigned to this activity will not be recognized by the American Registry of Radiologic Technologists (ARRT) however may be recognized and accepted by CAMRT’s provincial organization or other regulatory bodies for CPD requirements. **6.25** continuing education credit/hours for full day attendance – Thursday September 24, 2020. **5.0** continuing education credit/hours for full day attendance – Friday September 25, 2020.

Medical Dosimetrist Certification Board (MDCB) – **5.0 CE hours**

Letter from the President



Dear colleagues,

COVID pandemic impacting us both professionally and personally. Many aspects of our radiation oncology practices and activities have been affected. We have missed interacting with colleagues, friends, and family members. Although we are unable to meet together in person this year, I am pleased that we are able to offer an exciting virtual program.

The CARO ASM has had the task of essentially organizing 2 meetings – initially the in-person and then the pivot to the virtual format. This was done through the major efforts by the Scientific Committee, led by Dr. Meredith Giuliani, and our meeting organizer extraordinaire, Mary Hooey. We are very grateful for the many hours that they and their team (Alanah Bergman, Jennifer Croke, Fabio Cury, Marc Gaudet, Eric Leung, Brian Liszewski, David Palma, David Wu) have dedicated to the preparation of this meeting. Thank you to Dr. Jennifer Croke for her work in organizing the Resident Refresher Course and the Resident Career Counselling Event. We also want to acknowledge Denise Craine and the CARO Secretariat Central staff for their organization and expertise.

This year's theme, "*Equity in Radiation Oncology: Patients, Providers and Practice*", is particularly timely given the recent events we have seen in our country and beyond. This theme will include discussion of the future of radiotherapy in a person-centred and equitable system, and factors which effect equity from training to leadership, and those factors that may impact cancer care. We look forward to in-depth discussions in these topics as well as many other presentations, both virtual oral and poster, providing us with information and scientific advancements relevant to our specialties.

We would love you to join us in the social activities and fundraisers. Yes, the CROF Fun Walk/Run and Yoga events are still on – virtually! We are hopeful that we will see even more of you joining us in these important CARO/CROF fundraising activities.

I also would like to acknowledge the generous support of our industry sponsors – without your commitment to CARO's VSM, this event would not be possible. We look forward to future discussions and partnerships to enhance the education and development of our members.

Thank you for all you do to advance our field and the care of our patients. We look forward to brighter days ahead and I hope we can see each other in person soon. Please don't hesitate to contact me with your ideas to improve how CARO can work for you. I hope you find the CARO VSM a valuable and enriching experience.

Corinne Doll, MD FRCPC
President, CARO

Lettre du président



Chers collègues,

Au nom du conseil d'administration, je vous souhaite chaleureusement la bienvenue à la première Réunion scientifique virtuelle de l'ACRO.

Ce serait un euphémisme considérable de qualifier l'année en cours de « difficile », vu la pandémie de la COVID-19 qui sévit et qui nous touche tant professionnellement que personnellement. Celle-ci s'est répercutée sur bon nombre d'aspects de la pratique et des activités de la radio-oncologie. La présence de nos collègues, de nos amis et des membres de notre famille nous manque. Bien que nous ne soyons pas en mesure de nous réunir en personne cette année, je suis heureuse de pouvoir vous présenter un programme virtuel fort intéressant.

Les organisateurs de la RSA de l'ACRO a dû essentiellement organiser deux réunions – initialement, celle qui devait se tenir en personne et, ensuite, le format virtuel. Cela a été possible grâce aux efforts considérables du comité scientifique, dirigé par D^{re} Meredith Giuliani, et de Mary Hooey, notre excellente organisatrice de réunions. Nous sommes très reconnaissants des nombreuses heures qu'elles, et leur équipe (Alanah Bergman, Jennifer Croke, Fabio Cury, Marc Gaudet, Eric Leung, Brian Liszewski, David Palma et David Wu), ont consacrées à la préparation de cette réunion. Merci à D^{re} Jennifer Croke pour le travail effectué afin d'organiser le cours de recyclage et l'événement d'orientation professionnels destinés aux résidents. Nous tenons aussi à souligner les excellentes compétences organisationnelles de Denise Craine et du personnel de Secretariat Central.

Le thème de cette année, « *Équité en radio-oncologie : patients, professionnels de la santé et pratique* », est particulièrement opportun compte tenu des récents événements survenus au pays et à l'étranger. Ce thème prévoit des discussions sur l'avenir de la radiothérapie dans un système centré sur les personnes et équitable, sur les facteurs qui touchent l'équité, comme la formation et le leadership, et sur ceux qui sont susceptibles d'avoir un impact sur les soins oncologiques. Nous anticipons des discussions approfondies sur ces sujets, ainsi que les nombreuses autres présentations, tant virtuelles que par affiches, qui nous fourniront des renseignements et nous feront part des progrès scientifiques pertinents à nos spécialités.

Nous espérons que vous serez des nôtres pour les activités sociales et de financement. En effet, la Course/marche amicale pour la FCRO et les séances de yoga auront quand même lieu – virtuellement! Nous espérons que vous serez encore plus nombreux à participer à ces importantes activités de financement pour l'ACRO et la FCRO.

Je tiens aussi à souligner le généreux soutien de nos commanditaires – sans votre engagement envers la RSV de l'ACRO, sa tenue ne serait pas possible. Nous anticipons avec plaisir la perspective de discussions et partenariats futurs dans le but d'offrir des possibilités d'éducation et de perfectionnement encore plus avantageuses à nos membres.

Merci pour tous les efforts que vous déployez pour favoriser la progression de notre domaine et des soins aux patients. J'espère que des jours plus radieux nous attendent et que nous pourrons nous voir en personne bientôt. N'hésitez pas à communiquer avec moi si vous avez des suggestions pour améliorer les efforts que l'ACRO déploie pour vous. J'espère que la RSV de l'ACRO s'avérera à la fois utile et enrichissante pour vous.

Corinne Doll, MD FRCPC
Présidente de l'ACRO

Letter from the Chair, Scientific Planning Committee



Dear CARO Participants,

On behalf of the CARO Scientific Meeting Planning Committee welcome to the first ever CARO Virtual Scientific Meeting with a theme: *Equity in Radiation Oncology: Patients, Providers and Practice*. We know these have been deeply challenging times which will change how we deliver cancer care. We are very pleased to welcome you to the CARO meeting and offer you

the ability to connect with friends and colleagues. There is no substitute for getting together in person but are embracing this opportunity to get together virtually. While this format may not be preferred by everyone, it may be attractive to those who were not planning to travel to Toronto.

The meeting content is live and will be posted on the CARO virtual meeting Portal. The posters are available to view online at your leisure and the opportunity to comment and connect with the authors is available. Most posters have a 3 minute video attached to enhance the personal experience.

I would like to thank the Planning Committee for putting together a fantastic program and for committing their time to adapt to the rapidly changing situation. The program highlights radiation oncology research across Canada. The format includes a variety of sessions, with theme symposium, resident and fellow competition, plenary abstract and CBG sessions.

Among our keynote speakers are Sandra Turner from Australia – the CARO Lecturer, Lisa Barbera from Calgary – 2020 CARO Gold Medal and Gordon Richards Lecturer, and Conrad Falkson from Kingston – the Jean Roy Lecturer. We bring back the CARO-ESTRO Symposium on Global Radiotherapy led by Mary Gospodarowicz (CARO) and Yolande Lievens (ESTRO) with many panelists from ESTRO, IAEA, and Zambia.

I hope this meeting will bring you some sense of togetherness, have some fun at the social and provide you with the opportunity to see your friends and colleagues virtually. Need a break during the day, Goat Yoga is available over the lunch breaks on Thursday and Friday.

Join us Thursday, September 24th at 7:00pm for our BINGO by Brian social event. Prizes awarded throughout the game.

Although we are apart, we will be all together!

See you online!

Meredith Giuliani
Chair, CARO VSM

Lettre du Présidente, Comité de planification scientifique



Chers participants de l'ACRO,

Au nom du comité de planification de la Réunion scientifique de l'ACRO, nous vous souhaitons la bienvenue à la toute première Réunion scientifique virtuelle (RSV), tenue sous le thème de *l'Équité en radio-oncologie : patients, professionnels de la santé et pratique*. Nous savons que nous vivons actuellement des moments très difficiles qui transformeront la prestation des soins oncologiques. Nous sommes très heureux de vous accueillir à cette rencontre de l'ACRO et de vous offrir la possibilité d'échanger avec vos amis et collègues. Bien que rien ne remplace les rassemblements en personne, nous désirons mettre à profit cette occasion de nous réunir virtuellement. Bien que ce format ne plaise pas à tout le monde, il intéressera peut-être ceux qui ne prévoyaient pas venir à Toronto.

Le contenu de la réunion est maintenant disponible et il sera affiché sur le portail de la réunion virtuelle de l'ACRO. Vous pourrez consulter les affiches à votre gré, ainsi que formuler des commentaires à leur sujet et prendre contact avec leurs auteurs. La majorité des affiches s'accompagnent d'une vidéo de trois minutes ayant pour but de rehausser votre expérience.

Je tiens à remercier le comité de planification pour avoir créé un programme fantastique et pour avoir fait preuve d'une grande flexibilité pour s'adapter à une situation en constante mutation. Le programme met en lumière les initiatives de recherches en radio-oncologie d'un bout à l'autre du Canada. Le format prévoit diverses séances, dont un symposium thématique, un concours destiné aux résidents et aux boursiers, des présentations de résumés et des séances plénières organisées par le GCC.

Parmi les conférenciers d'honneur, citons Sandra Turner, de l'Australie – conférencière de l'ACRO, Lisa Barbera, de Calgary – Médaillée d'or 2020 de l'ACRO et conférencière Gordon Richards, et Conrad Falkson, de Kingston – conférencier Jean Roy. Nous réinstaurons le Symposium de l'ACRO et de l'ESTRO sur la radiothérapie mondiale, animé par Mary Gospodarowicz (ACRO) et par Yolande Lievens (ESTRO) et regroupant de nombreux panélistes de l'ESTRO, de l'IAEA et de la Zambie.

J'espère que cette réunion vous apportera un certain sentiment d'unité, que vous aurez du plaisir pendant les activités sociales et que vous aurez l'occasion de voir vos amis et collègues virtuellement. Besoin de répit pendant la journée? Des séances de yoga chèvre seront offertes jeudi et vendredi, pendant la pause du dîner.

Soyez des nôtres le jeudi 24 septembre à 19 h pour une soirée de BINGO avec Brian. Des prix seront décernés tout au long de la soirée.

Bien que nous soyons séparés, nous serons tous ensemble!

Au plaisir de vous voir en ligne!


Meredith Giuliani
Présidente, RSV de l'ACRO

Wednesday, September 23, 2020

All times shown are in EDT

TIME	EVENT
10:00 – 3:20pm	Resident Refresher Course <i>Moderator: Jennifer Croke</i> Objectives: After this session, the learners will be able to: <ul style="list-style-type: none"> • review stereotactic ablative radiotherapy for various malignancies. • review radiotherapy treatment plan evaluation and suggestions for plan improvement. • review the curative role of radiotherapy in common malignancies.
10:00 – 10:05am	Welcome and Introduction Jennifer Croke
10:05 – 10:35am	Management of Oropharyngeal Cancers Anthony Nichols
10:35 – 10:50am	Q&A
10:50 – 11:20am	Liver Aisling Barry
11:20 – 11:35am	Q&A
11:35 – 12:30pm	Break
12:30 – 1:00pm	SBRT Spine Dave Shultz
1:00 – 1:15pm	Q&A
1:15 – 2:15pm	Planning Evaluation Jennifer Croke and Jeff Winter
2:15 – 2:30pm	Break
2:30 – 3:00pm	Gynecology Kathy Han
3:00 – 3:15pm	Q&A
3:15 – 3:20pm	Closing Remarks
3:30 – 4:45pm	Resident Career Counselling Social Event Beyond Teambuilding International Pub Trivia Thank you for the support of the Partnership at Odette Cancer Centre and the Department of Radiation Oncology, University of Toronto.

Thursday, September 24, 2020

TIME	EVENT
10:00 – 10:10am	Welcome and Introductions Corinne Doll, Jennifer Carey, Meredith Giuliani
10:10 – 11:10am	Theme Symposium Thinking Outside the Box – Adapting to the New Normal <i>Facilitators: Brian Liszewski, David Palma</i> Objectives: After this session, the learners will be able to: <ul style="list-style-type: none"> • gain an appreciation of hypofractionation guidelines and their application during the pandemic and beyond. • interpret the stressors of the pandemic faced at the patient-practitioner interface, as well as the associated solutions. • describe barriers to education as a result of the pandemic and mitigation strategies. • discuss opportunities for shared learning from the pandemic and next steps
10:10 – 10:20am	Hypofractionation and COVID Matthias Guckenberger
10:20 – 10:30am	Frontline Perspectives – Practice Change at the Patient-Practitioner Interface Laura D'Alimonte
10:30 – 10:40am	Education – Lessons Learned Providing Education and Trainee Experience During a Pandemic Paris-Ann Ingledew
10:40 – 10:50am	Pan-Canadian Learning – Learning from One-Another, Harmonization of Practice and Next Steps – The Canadian Partnership for Quality Radiotherapy (CPQR) Jennifer Croke
10:50 – 11:05am	Panel Discussion
11:10 – 12:10pm	Resident Competition (1-6) <i>Moderators: Lisa Barbera, David Wu</i> Objectives: After this session, the learners will be able to: <ul style="list-style-type: none"> • discuss the top ranked resident research projects in radiation oncology across Canada. • explore toxicity profiles with novel radiation approaches. <p>  INTERIM ANALYSIS OF A PHASE II MULTI-INSTITUTION RANDOMIZED, PLACEBO-CONTROLLED TRIAL, THE PREMIUM TRIAL (PREVENTION OF METABOLIC SYNDROME AND INCREASED WEIGHT USING METFORMIN CONCURRENT TO ANDROGEN DEPRIVATION THERAPY AND RADIOTHERAPY FOR LOCALLY ADVANCED ADENOCARCINOMA OF THE PROSTATE) Karan Paul Sanghera¹, Julian O. Kim², Sunita Ghosh¹, Megan McDonald², Aldrich D. Ong², Rashmi Koul², Arbind Dubey², Shahida Ahmed², Harvey Quon³, Gokulan Sivananthan², William Hunter², Don Yee¹, Matthew Parliament¹, Brita Danielson¹, Lindsay Rowe¹, James Rose⁴, Nawaid Usmani¹ ¹University of Alberta, Edmonton, AB ²University of Manitoba, Winnipeg, MB ³University of Calgary, Calgary, AB ⁴University of British Columbia, Abbotsford, BC </p>

Thursday, September 24, 2020

TIME	EVENT
11:10 – 12:10pm	<p>Resident Competition (1-6) (cont'd)</p> <p>2 ACUTE AND SUBACUTE GASTROINTESTINAL AND GENITOURINARY TOXICITY PROFILES OF METFORMIN VERSUS PLACEBO PLUS PROSTATE AND PELVIC RADIOTHERAPY FOR THE MANAGEMENT OF HIGH RISK PROSTATE CANCER: INTERIM TOXICITY RESULTS OF A DOUBLE-BLINDED, MULTICENTER, PHASE II RANDOMIZED CONTROLLED TRIAL Megan O. McDonald¹, Nawaid Usmani², Aldrich Ong¹, Rashmi Koul¹, Arbind Dubey¹, Shahida Ahmed¹, Harvey Quon³, Don Yee², Matthew Parliament², Gokulan Sivananthan¹, Brita Danielson², Lindsay Rowe², James Rose⁴, William Hunter¹, Karan Paul Sanghera², Sunita Ghosh², Julian O. Kim¹ ¹University of Manitoba, Winnipeg, MB ²University of Alberta, Edmonton, AB ³University of Calgary, Calgary, AB ⁴University of British Columbia, Vancouver, BC</p> <p>3 LONG TERM BIOCHEMICAL CONTROL OF A PROSPECTIVE COHORT OF PROSTATE CANCER PATIENTS TREATED WITH INTERSTITIAL BRACHYTHErapy VERSUS RADICAL PROSTATECTOMY Gordon Locke¹, Juanita Crook², Charles Catton¹, Zhihui Liu¹, Srinivas Raman¹, Alejandro Berlin¹, Peter Chung¹, Neil Fleshner¹, Joelle Helou¹ ¹University of Toronto, Toronto, ON ²University of British Columbia, Kelowna, BC</p> <p>4 CARO ACURA 2016 PRIMARY ANALYSIS OF A PHASE II STUDY OF METASTASIS-DIRECTED ABLATIVE THERAPY TO PSMA (18F-DCFPYL) PET-MR/CT DEFINED OLIGORECURRENT PROSTATE CANCER Rachel Glicksman¹, Ur Metser², Doug Vines³, Rosanna Chan², John Valliant⁴, Peter Chung³, Mary Gospodarowicz³, Andrew Bayley³, Charles Catton³, Padraig Warde³, Joelle Helou³, Srinivas Raman³, David Green³, Nathan Perlis³, Neil Fleshner³, Robert J Hamilton³, Alexandre Zlotta³, Antonio Finelli³, David Jaffray⁵, Alejandro Berlin³ ¹University of Toronto, Toronto, ON ²University Health Network, Toronto, ON ³Princess Margaret Cancer Centre, Toronto, ON ⁴McMaster University, Hamilton, ON ⁵MD Anderson Cancer Center, Houston, TX</p> <p>5 IS THE TOXICITY OF BREAST RADIOTHERAPY HIGHER IN PATIENTS WITH COLLAGEN VASCULAR DISEASE? A SYSTEMATIC REVIEW OF THE LITERATURE Wei Liu¹, Aaron Leung¹, Jane Park¹, Brandon Liu², Gabriel Boldt¹, David Palma¹ ¹Western University, London, ON ²McMaster University, Hamilton, ON</p> <p>6 HYPERFRACTIONATED POSTMASTECTOMY RADIOTHERAPY IN PATIENTS WITH IMMEDIATE BREAST RECONSTRUCTION: INSTITUTIONAL OUTCOMES Nina Samson, Sarah Quirk, Tannis Graham, Natalie Logie University of Calgary, Calgary, AB</p>

Thursday, September 24, 2020

TIME	EVENT
12:10 – 1:00pm	Lunch/Exhibits
12:20 – 12:40pm	Yoga Led by: Tabitha Carloni
12:20 – 12:40pm	Breakout: Working From Home – Share your tips and trips Derek Tsang, Aisling Barry
1:00 – 1:45pm	<p>Jean Roy Lecture Moderator: Aman Taggar Introduction: Martin Korzeniowski</p> <p>Brachytherapy For All: Why Not? Conrad Falkson</p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • review of scope of uses of brachytherapy. • review of barriers to utilization. • identify training challenges. • identify ways of improving access and utilization.
1:50 – 3:05pm	<p>Plenary Abstracts (7-10) Moderators: Paris-Ann Ingledeew, Fabio Cury</p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • understand a variety of interesting and select topics of radiation therapy innovations, and how they impact our cancer population. • describe the results of innovative and practice-changing research done by Canadian peers. <p>7 RESECTION MARGIN STATUS AND RADIATION BOOST TO SURGICAL CAVITY AFTER BREAST CONSERVING SURGERY, A PATTERN-OF-PRACTICE STUDY IN BRITISH COLUMBIA Hamid Raziee¹, Stephanie Gulstene², Caroline Lohrisch¹, Lovedeep Gondara¹, Caroline Speers¹, Winkle Kwan¹, Susan Balkwill¹, Arthur Cheung¹, Stephanie Casey¹, Alan Nichol¹ ¹University of British Columbia, Vancouver, BC ²Western University, London, ON</p> <p>8 STEREOTACTIC ABLATIVE RADIOTHERAPY FOR THE COMPREHENSIVE TREATMENT OF OLIGOMETASTATIC CANCERS: LONG-TERM RESULTS OF THE SABR-COMET RANDOMIZED TRIAL David Palma¹, Robert Olson², Stephen Harrow³, Stewart Gaede⁴, Alexander Louie¹, Cornelis Haasbeek⁵, Liam Mulroy⁶, Michael Lock¹, George Rodrigues¹, Brian Yaremko¹, Belal Ahmad¹, Roel Schlijper², Joanna Laba¹, Melody Qu¹, Devin Schellenberg⁷, Sashendra Senth⁸, Anand Swaminath⁹, Neil Kopek¹⁰, Mitchell Liu¹¹, Karen Moore³, Suzanne Currie³, Glenn Bauman¹, Andrew Warner¹, Suresh Senan⁵ ¹Western University, London, ON ²British Columbia Cancer Agency, Prince George, BC ³Beatson West of Scotland Cancer Centre, Glasgow, UK ⁴London Health Sciences Centre, London, ON ⁵VU University Medical Center, Amsterdam, NL ⁶Nova Scotia Cancer Centre, Halifax, NS ⁷British Columbia Cancer Agency, Surrey, BC ⁸Alfred Hospital, Melbourne, AU ⁹Juravinski Cancer Centre, Hamilton, ON ¹⁰McGill University Health Centre, Montreal, QC ¹¹British Columbia Cancer Agency, Vancouver, BC</p>

Thursday, September 24, 2020

TIME	EVENT
1:50 – 3:05pm	<p>Plenary Abstracts (7-10) (cont'd)</p> <p>9</p> <p>A PHASE II MULTI-CENTRE TRIAL OF STEREOTACTIC RADIOTHERAPY FOR OLIGOPROGRESSION IN METASTATIC KIDNEY CANCER PATIENTS RECEIVING TYROSINE KINASE INHIBITOR THERAPY</p> <p>Patrick Cheung¹, Samir Patel², Scott North², Arjun Sahgal¹, William Chu¹, Hany Soliman¹, Belal Ahmad³, Eric Winkvist³, Tamim Niazi⁴, Francois Patenaude⁴, Gerald Lim⁵, Daniel Heng⁵, Arbind Dubey⁶, Piotr Czaykowski⁶, Rebecca Wong¹, Anand Swaminath⁷, Scott Morgan⁸, Justin White⁹, Sareh Keshavarzi⁹, Georg Bjarnason¹</p> <p>¹University of Toronto, Toronto, ON ²University of Alberta, Edmonton, AB ³Western University, London, ON ⁴McGill University, Montreal, ON ⁵University of Calgary, Calgary, AB ⁶University of Manitoba, Winnipeg, MB ⁷McMaster University, Hamilton, ON ⁸University of Ottawa, Ottawa, ON ⁹Ozmosis Research Inc., Toronto, ON</p> <p>10</p> <p>NCI</p> <p>SALVAGE LOW DOSE RATE PROSTATE BRACHYTHERAPY: CLINICAL OUTCOMES OF A PHASE II TRIAL FOR LOCAL RECURRENCE AFTER EXTERNAL BEAM RADIOTHERAPY (NRG/RTOG 0526)</p> <p>Joseph Rodgers¹, Juanita Crook², Thomas Pisansky³, Edouard Trabulsi⁴, Mahul Amin⁵, William Bice⁶, Gerard Morton⁷, Nadeem Pervez⁸, Eric Vigneault⁹, Charles Catton¹, Jeff Michalski¹⁰, Mack Roach¹¹, David Beyer¹², Peter Rossi¹³, Eric Horwitz¹⁴, Viron Donavanik¹⁵, Howard Sandler¹⁶</p> <p>¹NRG, Philadelphia, PA ²University of British Columbia, Kelowna, BC ³Mayo Clinic, Rochester, MN ⁴Jefferson University, Philadelphia, PA ⁵Cedars Sinai, Los Angeles, CA ⁶John Muir Health Systems, Walnut Creek, CA ⁷University of Toronto, Toronto, ON ⁸University of Edmonton, Edmonton, AB ⁹Universite de Laval, Quebec, QC ¹⁰Washington University, St Louis, MO ¹¹University of California, San Francisco, CA ¹²Arizona Oncology Services Foundation, Sedona, AZ ¹³Emory University, Atlanta, GA ¹⁴Fox Chase Cancer Center, Philadelphia, PA ¹⁵Christiana Care, Newark, DE ¹⁶UCLA, Los Angeles, CA</p>
3:05 – 3:30pm	Break

Thursday, September 24, 2020

TIME	EVENT
3:30 – 4:20pm	<p>Brachytherapy Oral Session (12-16) <i>Moderators: Conrad Falkson, Marc Gaudet</i></p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • recognize important aspects of treatment planning and delivery of brachytherapy. • review current practices and outcomes of brachytherapy. <p>12 AN UPDATED ANALYSIS OF SURVIVAL ENDPOINTS FOR ASCENDE-RT, A RANDOMIZED TRIAL COMPARING A LOW-DOSE-RATE BRACHYTHERAPY BOOST TO A DOSE-ESCALATED EXTERNAL BEAM BOOST FOR HIGH- AND INTERMEDIATE-RISK PROSTATE CANCER Justin Oh¹, Scott Tyldesley¹, Howard Pai², Michael McKenzie¹, Ross Halperin³, Graeme Duncan¹, Gerard Morton⁴, Mira Keyes¹, Jeremy Hamm¹, James Morris¹ ¹University of British Columbia, Vancouver, BC ²University of British Columbia, Victoria, BC ³University of British Columbia, Kelowna, BC ⁴University of Toronto, Toronto, ON</p> <p>13 COST-UTILITY ANALYSIS OF RADIATION STRATEGIES IN THE MANAGEMENT OF INTERMEDIATE-RISK PROSTATE CANCER Joelle Helou¹, David Naimark¹, Gerard Morton¹, Noelia Sanmamed¹, Charles Catton¹, Jacques Raphael², Andrew Loblaw¹ ¹University of Toronto, Toronto, ON ²Western University, London, ON</p> <p>14 SEVENTEEN YEARS EXPERIENCE OF EBRT PLUS HDR BRACHYTHERAPY BOOST IN HIGH-RISK LOCALIZED PROSTATE CANCER PATIENTS: A COMPETING RISKS ANALYSIS Damien Carignan¹, Philippe Després¹, Sindy Magnan², Marie-Anne Froment², William Foster², Sylviane Aubin², Marie-Claude Lavallée², Frédéric Lacroix², Audrey Cantin², Éric Poulin², André-Guy Martin², Eric Vigneault² ¹Université Laval, Québec, QC ²CHU de Québec-Université Laval, Québec, QC</p> <p>15 ACURA ANALYSIS OF PSA KINETICS AND LATE TREATMENT RELATED TOXICITY IN A PHASE 2 RANDOMIZED PILOT STUDY COMPARING HIGH DOSE RATE BRACHYTHERAPY AND LOW DOSE RATE BRACHYTHERAPY AS MONOTHERAPY IN LOCALIZED PROSTATE CANCER Thomas Reynaud¹, Lara Hathout², Damien Carignan¹, Maroie Barkati³, André-Guy Martin¹, William Foster¹, Frédéric Lacroix¹, Guila Delouya³, Daniel Tausky³, Eric Vigneault¹, Gerard Morton⁴ ¹Université Laval, Québec, QC ²Rutgers University, New Brunswick, NJ ³Centre Hospitalier de l'Université de Montréal, Montréal, QC ⁴University of Toronto, Toronto, ON</p> <p>16 CARO ACURA 2017 DEFORMABLE IMAGE REGISTRATION-ENABLED CUMULATIVE TOTAL (DIRECT) DOSE ADAPTATION IN PROSTATE RADIOTHERAPY Aran Kim¹, Stina Svensson², Minna Wedenberg², Peter Chung³, Tim Craig³, Tony Tadic³, Alejandro Berlin³, Michael Velec³ ¹Princess Margaret Cancer Centre, Toronto, ON ²RaySearch Laboratories, Stockholm, SE ³Princess Margaret Cancer Centre, Toronto, ON</p>

Thursday, September 24, 2020

TIME	EVENT
3:30 – 4:30pm	<p>Oral Session 6 – A Mix (53-58) <i>Moderators: Shrinivas Rathod, Tara Rosewall</i></p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • discuss specific topics in radiation medicine including supportive care during radiotherapy, clinical outcomes and toxicity. <p>53 UTILITY OF POST-TREATMENT PET IN HPV ASSOCIATED OROPHARYNGEAL CANCER: A SYSTEMATIC REVIEW AND META-ANALYSIS Pencilla Lang, Sondos Zayed, Andrew Warner, Gabriel Boldt, Lucas Mendez, Varagur Venkatesan, Jinka Sathya, Nancy Read, David Palma Western University, London, ON</p> <p>54 RE-IRRADIATION FOR RECURRENT CRANIOPHARYNGIOMA Sarah Foran, Normand Laperriere, Kim Edelstein, Laura Janzen, Vijay Ramaswamy, David Shultz, Fred Gentili, Eric Bouffet, Derek Tsang University of Toronto, Toronto, ON</p> <p>55 THE RATE OF PROSTATIC INVOLVEMENT IN MEN TREATED WITH RADICAL CYSTECTOMY FOR MUSCLE INVASIVE BLADDER CANCER Benjamin Royal-Preyra, Luis Souhami, Fadi Brimo, Mehdi Mansoor, Yousef Katib McGill University, Montreal, QC</p> <p>56 OUTCOMES FROM A SINGLE INSTITUTION COHORT OF 248 PATIENTS WITH STAGE I-III ESOPHAGEAL CANCER TREATED WITH RADIOTHERAPY Carrie Lavergne¹, Mark Niglas², Abrielle Fulton¹, Andrew Youssef¹, Ayesha Fathima¹, Youssef Youssef² ¹Lakeridge Health, Oshawa, ON ²Queen's University, Oshawa, ON</p> <p>57 RED BLOOD CELL TRANSFUSION PRACTICES FOR CERVIX CANCER PATIENTS UNDERGOING RADIOTHERAPY: AN INTERNATIONAL DELPHI CONSENSUS STUDY Sondos Zayed¹, Timothy Nguyen¹, Lucas Mendez¹, Vikram Velker¹, Corinne Doll², Amandeep Taggar³, Eric Leung³, David D'Souza¹ ¹Western University, London, ON ²University of Calgary, Calgary, AB ³University of Toronto, Toronto, ON</p> <p>58 PATTERNS OF PRACTICE AND CLINICAL OUTCOMES IN PATIENTS WITH VULVAR CARCINOMA Lama Khoja¹, Nicholas Hurst¹, Neesha Dhani¹, Michael Milosevic¹, Kathy Han¹, Anthony Fyles¹, Blaise Clarke¹, Amy Liu², Jessica Weiss², Stephane Laframboise¹, Jennifer Croke¹ ¹University of Toronto, Toronto, ON ²University Health Network, Toronto, ON</p>

Thursday, September 24, 2020

TIME	EVENT
4:30 – 5:20pm	<p>CARO Lecture <i>Moderator: Corinne Doll</i></p> <p>Improving Equity through Awareness: Lessons from the Targeting Cancer Campaign Sandra Turner</p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • share lessons learned from a bi-national campaign to raise awareness of radiation therapy. • highlight the value of interdisciplinary activity in radiation oncology advocacy. • showcase partnerships with patients in raising the profile of radiation therapy.

Friday, September 25, 2020

TIME	EVENT
10:00 – 11:00am	<p>CARO-ESTRO Symposium Expanding the Global Access to Radiotherapy – from Evidence to Practice <i>Moderator: Mary Gospodarowicz</i></p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • understand how evidence can support access and capacity planning in radiation oncology • review the status of the Lancet Commission on global access to radiotherapy – 5 years later • understand the role of the IAEA in the capacity building for global radiotherapy
10:00 – 10:05am	<p>Welcome and Introduction Mary Gospodarowicz</p>
10:05 – 10:35am	<p>Keynote Address Yolande Lievens</p>
10:35 – 11:00am	<p>Panel Discussion May Abdel Wahab, Eduardo Zubizarreta, Ajay Aggarwal, Chiara Gasparotto, Timothy Hanna, Danielle Rodin, Dorothy Lombe</p>
11:00 – 12:00pm	<p>Fellow Competition (17-22) <i>Moderators: Michael Brundage, Jennifer Croke</i></p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • discuss the top scored Canadian Radiation Oncology Fellow research projects. <p>17 A PROGNOSTIC GENE EXPRESSION SIGNATURE FOR WOMEN WITH CERVICAL CANCER RECEIVING CURATIVE INTENT TREATMENT Jelena Lukovic, Melania Pintilie, Jeffrey Bruce, Kathy Han, Rob Cairns, Trevor Pugh, Michael Milosevic Princess Margaret Cancer Centre, Toronto, ON</p> <p>18 STEREOTACTIC BODY RADIATION THERAPY FOR MEDIASTINAL AND HILAR LYMPH NODE METASTASES: A SINGLE-INSTITUTIONAL REVIEW OF CLINICAL OUTCOMES Jeevin Shahi¹, Ian Poon¹, Yee Ung¹, May Tsao¹, Nauman H. Malik², Liying Zhang¹, Alexander V. Louie¹, Patrick Cheung¹ ¹Odette Cancer Centre, Toronto, ON ²University of Toronto, Toronto, ON</p> <p>19 EFFECTIVENESS OF STEREOTACTIC BODY RADIATION THERAPY (SBRT) FOR OLIGOMETASTATIC NON-SPINE BONE LESIONS: AN INTERNATIONAL CONSORTIUM STUDY Hanbo Chen¹, Linda Cao², Kristin Redmond², Darby Eler¹, Serena Badellino¹, Tithi Biswas³, Roi Dagan⁴, Matthew Foote⁵, Alexander Louie¹, Ian Poon¹, Umberto Ricardi⁶, Arjun Sahgal¹ ¹University of Toronto, Toronto, ON ²The Johns Hopkins University, Baltimore, MD ³Case Western Reserve University, Cleveland, OH ⁴University of Florida, Jacksonville, FL ⁵University of Queensland, Brisbane, AU ⁶University of Torino, Torino, IT</p>

Friday, September 25, 2020

TIME	EVENT
11:00 – 12:00pm	<p>Fellow Competition (17-22) (cont'd)</p> <p>20 RADIATION THERAPY ALONE VERSUS RADIATION THERAPY WITH HORMONAL THERAPY FOR WOMEN WITH EARLY STAGE BREAST CANCER: A POPULATION-BASED STUDY Tina (Wanting) Zhang¹, Caroline Speers², Lovedeep Gondara², Caroline Lohrsch¹, Alan Nichol¹ ¹University of British Columbia, Vancouver, BC ²British Columbia Cancer Agency, Vancouver, BC</p> <p>21 COMPARISON OF ACUTE TOXICITIES IN PATIENTS WITH PROSTATE CANCER TREATED WITH HIGH DOSE RATE VERSUS LOW DOSE RATE BRACHYTHERAPY BOOST Arun Elangovan, Kevin Martell, Harvey Quon, Steve Angyalfi, Che Hsuan David Wu, Tyler Meyer, Siraj Husain University of Calgary, Calgary, AB</p> <p>22 NEO-ADJUVANT TREATMENT FOR MANAGEMENT OF STAGE IV RECTAL CANCERS WITH OLIGOMETASTATIC DISEASE AT PRESENTATION Aswin George Abraham, Kurian Joseph, JoAnn Thai, Sunita Ghosh, Diane Severin, Keith Tankel, Tirath Nijjar, Nawaid Usmani University of Alberta, Edmonton, AB</p>
12:00 – 12:45pm	Lunch/Exhibits
12:20 – 12:40pm	<p>Yoga Led by: Tabitha Carloni</p>
12:45 – 1:45pm	<p>Oral Session 2 – Population Science (29-34) Concurrent 1 <i>Moderators: Jolie Ringash, Jordan Stosky</i></p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • discuss current paradigms in population based cancer control. • review the impact of social determinants of health on cancer outcomes. <p>29 CARING FOR THE CAREGIVERS: AN ENVIRONMENTAL SCAN OF CHILDCARE PROGRAMS FOR PATIENTS WITH CANCER Mackenzie MacDonald¹, Meredith Giuliani², Luminita Nica¹, Katherine Preston¹, Paris-Ann Ingledew¹ ¹University of British Columbia, Vancouver, BC ²University of Toronto, Toronto, ON</p> <p>30 IS INTERMITTENT ANDROGEN DEPRIVATION THERAPY AN UNDERUTILIZED STRATEGY FOR MANAGEMENT OF RELAPSED, NON-METASTATIC, CASTRATION SENSITIVE PROSTATE CANCER? – A POPULATION-BASED ASSESSMENT OF A PROVINCIAL CANCER PROGRAM Bryan Janzen¹, Aldrich Ong¹, Oliver Bucher², Pat Trozzo², Makoy Penner³, Rashmi Koul¹, Bashir Bashir¹, Arbind Dubey¹, Julian Kim¹ ¹University of Manitoba, Winnipeg, MB ²CancerCare Manitoba, Winnipeg, MB ³Canadian Mennonite University, Winnipeg, MB</p>

Friday, September 25, 2020

TIME	EVENT
12:45 – 1:45pm	<p>Oral Session 2 – Population Science (29-34) Concurrent 1 (cont'd)</p> <p>31 PATIENT PREFERENCES FOR HYPOFRACTIONATED RADIOTHERAPY TO TREAT LOCALIZED PROSTATE CANCER: A DISCRETE CHOICE EXPERIMENT Samantha Sigurdson¹, Mark Harrison², Harriet Richardson¹, Khaled Zaza¹, Michael Brundage¹, Alison Pearce³ ¹Queen's University, Kingston, ON ²University of British Columbia, Vancouver, BC ³University of Sydney, Sydney, AU</p> <p>32 RADIATION AND/OR ENDOCRINE THERAPY? RECURRENCE AND SURVIVAL OUTCOMES IN WOMEN OVER 70 WITH EARLY BREAST CANCER AFTER BREAST CONSERVING SURGERY Hannah Dahn, Derek Wilke, Gordon Walsh, Jean-Philippe Pignol Dalhousie University, Halifax, NS</p> <p>33 GEOGRAPHIC ACCESSIBILITY TO RADIOTHERAPY IN CANADA FOR INDIGENOUS POPULATIONS: HIGHLIGHTING THE INEQUITIES Jessica Chan¹, Eduardo Zubizarreta², Jan Willem van Eck³, Timothy Hanna⁴, Jean-Marc Bourque¹, Marc Gaudet¹, Kristopher Dennis¹, Robert Olson⁵, C. Norman Coleman⁶, May Abdel-Wahab⁷, Michael Brundage⁴, Ben Slotman⁸, Alfredo Polo² ¹University of Ottawa, Ottawa, ON ²International Atomic Energy Agency, Vienna, AT ³Environmental Systems Research Institute, Amsterdam, NL ⁴Queen's University, Kingston, ON ⁵British Columbia Cancer Agency, Prince George, BC ⁶International Cancer Expert Corps, Inc., Washington, DC ⁷International Atomic Energy Agency, Vienna, AT ⁸Amsterdam UMC, Vrije University Medical Center, Amsterdam, NL</p> <p>34 IMPROVING THE QUALITY OF PATIENT REPORTED OUTCOMES IN RANDOMIZED CLINICAL TRIALS BY MINIMIZING MISSING DATA Michael Palmer, Harriet Richardson, Michael Brundage Queen's University, Kingston, ON</p>
12:45 – 1:35pm	<p>Oral Session 3 – Stereotactic Radiosurgery (35-40) Concurrent 2 <i>Moderators: Elysia Donovan, Mike Velec</i></p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • understand the most recent advances in radiosurgery and its impact on treatment outcomes. • discuss important factors related to quality of treatment planning and delivery. <p>35 IMAGING-BASED LOCAL CONTROL RATES FOR "RADIORESISTANT" SPINAL METASTASES FOLLOWING SPINE STEREOTACTIC BODY RADIOTHERAPY USING PROSTATE CANCER AS THE "RADIOSENSITIVE" REFERENCE K. Liang Zeng, Zain Husain, Hany Soliman, Sten Myrehaug, Chia-Lin Tseng, Jay Detsky, Young Lee, Mikki Campbell, Monica Foster, Eshetu Atenafu, Pejman Maralani, Arjun Sahgal University of Toronto, Toronto, ON</p>

Friday, September 25, 2020

TIME	EVENT
12:45 – 1:35pm	<p>Oral Session 3 – Stereotactic Radiosurgery (35-40) Concurrent 2 (cont'd)</p> <p>37 STEREOTACTIC RADIOSURGERY FOR SMALL CELL LUNG CANCER BRAIN METASTASES: A SYSTEMATIC REVIEW AND META-ANALYSIS Eric K Nguyen¹, Timothy K Nguyen², Eric Lehrer³, Raj Singh⁴, Arjun Sahgal⁵, Daniel M Trifiletti⁶ ¹McMaster University, Hamilton, ON ²London University, London, ON ³Mount Sinai School of Medicine, New York, NY ⁴Virginia Commonwealth University Health System, Richmond, VA ⁵University of Toronto, Toronto, ON ⁶Mayo Clinic, Jacksonville, FL</p> <p>38 STEREOTACTIC BODY RADIOTHERAPY FOR OLIGOMETASTATIC PROSTATE CANCER: A SYSTEMATIC REVIEW AND META-ANALYSIS OF PROSPECTIVE TRIALS Michael Yan, Nikitha Moideen, Vanessa Bratti, Fabio Ynoe de Moraes Queen's University, Kingston, ON</p> <p>39 IMPACT OF SMOKING STATUS AND PACK YEAR HISTORY ON OUTCOMES OF EARLY STAGE NON-SMALL CELL LUNG CANCERS TREATED WITH STEREOTACTIC ABLATIVE RADIOTHERAPY Jack Zheng, Ritika Hinduja, Jason Pantarotto, Graham Cook, Robert MacRae University of Ottawa, Ottawa, ON</p> <p>40 PATTERNS OF FAILURE IN EXTRA-CRANIAL OLIGOMETASTATIC PATIENTS TREATED WITH DEFINITIVE STEREOTACTIC BODY RADIOTHERAPY (SBRT) Ian Poon¹, Darby Erler², Roi Dagan³, Kristin Redmond⁴, Matthew Foote⁵, Serena Badellino⁶, Tithi Biswas⁷, Alex Louie¹, Umberto Ricardi⁶, Arjun Sahgal¹ ¹University of Toronto, Toronto, ON ²Odette Cancer Centre, Toronto, ON ³University of Florida, Jacksonville, FL ⁴Johns Hopkins University, Baltimore, MD ⁵University of Queensland, Woolloongabba, AU ⁶University of Torino, Turin, IT ⁷UH Case Western, Cleveland, OH</p>

Friday, September 25, 2020

TIME	EVENT
12:45 – 1:45pm	<p>Oral Session 5 – Breast Cancer and Palliative Care (47-52) Concurrent 3 <i>Moderators: Trisha Daigle-Maloney, Natalie Logie</i></p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • discuss current paradigms of treatment for breast cancer. • explore predictors of outcomes in palliative radiotherapy. <p>47 FIVE YEAR LONGITUDINAL ANALYSIS OF MYOCARDIAL PERFUSION SCINTIGRAPHY POST RADIOTHERAPY USING SINGLE-PHOTON EMISSION COMPUTED TOMOGRAPHY (SPECT) PROSPECTIVE COMPARISON OF LONG TERM CARDIAC FUNCTION OF PATIENTS PARTICIPATED IN A PHASE III RANDOMIZED STUDY OF BREAST CONSERVING SURGERY AND RADIOTHERAPY Karan Paul Sanghera¹, Farshid Gheisari², Stella Koumna¹, Terence Riauka¹, Emmanuel Hudson¹, Zsolt Gabos¹, Susan Chafe¹, Keith Tankel¹, Bassam Abdulkarim³, Matthew Parliament¹, Kurian Joseph¹ ¹University of Alberta, Edmonton, AB ²Shiraz University of Medical Sciences, Tehran, IR ³McGill University, Montreal, QC</p> <p>48 NEW ASPECTS REGARDING THE RADIATION OF PARTIAL- AND WHOLE BREAST IN EARLY STAGE BREAST CANCER Jan Haussmann¹, Edwin Boelke¹, Wilfried Budach¹, Balint Tamaskovics¹, Freddy Djiepmo Njanang¹, Stefanie Corradini², Kai Kammers³, Christiane Matuschek¹ ¹Heinrich Heine University, Dusseldorf, DE ²LMU, Munich, DE ³The Johns Hopkins University School of Medicine, Baltimore, MD</p> <p>49 AXILLARY LYMPH NODE COVERAGE IN BREAST CANCER PATIENTS TREATED WITH ADJUVANT RADIATION USING HIGH TANGENT TECHNIQUE: BC CANCER KELOWNA EXPERIENCE Siavash Atrchian, Ajhmair Lali, Angela Lin, Sarah Lucas, Rasika Rajapakshe, Francois Germain British Columbia Cancer Agency, Kelowna, BC</p> <p>50 TRIPLE NEGATIVE BREAST CANCER IS ASSOCIATED WITH INFERIOR PATIENT REPORTED OUTCOMES FOLLOWING PALLIATIVE RADIOTHERAPY FOR BONE METASTASES Daegan Sit¹, Ko Ta Chen¹, Billy Zhao¹, Caroline Speers², Caroline Lohrisch¹, Robert Olson¹, Alan Nichol¹, Fred Hsu¹ ¹University of British Columbia, Vancouver, BC ²British Columbia Cancer Agency, Vancouver, BC</p>

Friday, September 25, 2020

TIME	EVENT
12:45 – 1:45pm	<p>Oral Session 5 – Breast Cancer and Palliative Care (47-52) Concurrent 3 (cont'd)</p> <p>51 A PHASE III RANDOMIZED TRIAL OF PALLIATIVE RADIATION FOR ADVANCED CENTRAL LUNG TUMOURS WITH INTENTIONAL AVOIDANCE OF THE ESOPHAGUS (PROACTIVE) Alexander Louie¹, Patrick Granton², Alys Fairchild³, Andrea Bezjak¹, Darin Gopaul⁴, Liam Mulroy⁵, Anthony Brade¹, Andrew Warner⁶, Brock Debenham³, David Bowes⁵, Joda Kuk⁴, Alexander Sun¹, Douglas Hoover⁶, George Rodrigues⁶, David Palma⁶ ¹University of Toronto, Toronto, ON ²Erasmus University, Rotterdam, NL ³University of Alberta, Edmonton, AB ⁴Waterloo University, Kitchener, ON ⁵Dalhousie University, Halifax, NS ⁶Western University, London, ON</p> <p>52 FUTILE RADIOTHERAPY AT THE END OF LIFE: DETERMINING PREDICTORS OF PALLIATIVE RADIOTHERAPY NOT TAKEN TO COMPLETION Siddhartha Goutam¹, Jordan Stosky², Jackson Wu³, Alys Fairchild¹, Marc Kerba³ ¹University of Alberta, Edmonton, AB ²McGill University, Montreal, QC ³University of Calgary, Calgary, AB</p>
1:50 – 2:50pm	<p>Oral Session 1 – Applied Technology and Physics (23-28) Concurrent 1 <i>Moderators: Alanah Bergman, Fabio Moraes</i></p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • discuss novel technologies utilized in the planning and delivery of radiotherapy. • explore the impact of automation and big data on cancer control. <p>23 MR-LINAC RADIOTHERAPY: EXPERIENCE, DATA COLLECTION AND IMAGING IN YEAR ONE Brian Keller, Mikki Campbell, Mark Ruschin, Anthony Kim, Claire McCann, Angus Lau, Hany Soliman, Danny Vesprini, Jay Detsky, Chia-Lin Tseng, Arjun Sahgal University of Toronto, Toronto, ON</p> <p>24 PRELIMINARY EXPERIENCE WITH MRI-GUIDED ONLINE ADAPTIVE SBRT FOR LIVER ON AN MR-LINAC SYSTEM Teo Stanescu, Andrea Shessel, Cathy Carpino-Rocca, Anna Simeonov, Michael Velec, Jelena Lukovic, Ali Hosni, Laura Dawson University of Toronto, Toronto, ON</p> <p>25 IMPLEMENTATION OF DEEP LEARNING-BASED AUTO-SEGMENTATION FOR RADIOTHERAPY PLANNING STRUCTURES: A MULTI-CENTER WORKFLOW STUDY Jordan Wong¹, Vicky Huang², Derek Wells³, Joshua Giambattista⁴, Jonathan Giambattista⁵, Carter Kolbeck⁶, Karl Otto⁷, Abraham Alexander³ ¹British Columbia Cancer Centre, Vancouver, Vancouver, BC ²British Columbia Cancer Centre, Fraser Valley, Surrey, BC ³British Columbia Cancer Centre, Victoria, Victoria, BC ⁴Saskatchewan Cancer Agency, Regina, SK ⁵Independent, Regina, SK ⁶Independent, Toronto, ON ⁷Independent, Vancouver, BC</p>

Friday, September 25, 2020

TIME	EVENT
1:50 – 2:50pm	<p>Oral Session 1 – Applied Technology and Physics (23-28) Concurrent 1 (cont'd)</p> <p>26 AUTOMATED MACHINE-LEARNING RADIOTHERAPY PLANNING FOR PEDIATRIC AND ADULT BRAIN TUMOURS Grace Tsui¹, Derek Tsang², Chris McIntosh¹, Tom Purdie¹, Mohammad Khandwala¹, Glenn Bauman³, Normand Laperriere², Hitesh Dama¹, David Hodgson² ¹Princess Margaret Cancer Centre, Toronto, ON ²University of Toronto, Toronto, ON ³London Regional Cancer Program, London, ON</p> <p>27 EVALUATING DOSIMETRIC IMPACT OF INTRA-FRACTION MOTION FOR ULTRA-HYPO-FRACTIONATED PROSTATE PATIENTS TREATED ON THE MR-LINAC Jennifer Dang, Vickie Kong, Winnie Li, Jeff Winter, Andrew Bayley Princess Margaret Cancer Centre, Toronto, ON</p> <p>28 DEFORMABLE REGISTRATION FOR EVIDENCE-BASED PTV MARGINS IN LUNG SABR: CAN MODERN TECHNIQUES FACILITATE REDUCTION IN PTV MARGINS WHILE MAINTAINING IGTV COVERAGE? Katie Jasper¹, Quinn Matthews², Baochang Liu², Rob Olson² ¹University of British Columbia, Vancouver, BC ²University of British Columbia, Prince George, BC</p>
1:50 – 2:50pm	<p>Oral Session 4 – Education and Survivorship (41-46) Concurrent 2 <i>Moderators: Joanne Alfieri, Maryam Dosani</i></p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • review current best practices in cancer education. • explore methodologist in cancer education science. <p>41 DO COORDINATED KNOWLEDGE TRANSLATION CAMPAIGNS PERSUADE RADIATION ONCOLOGISTS TO UTILIZE SINGLE FRACTION RADIOTHERAPY OVER MULTIPLE FRACTION RADIOTHERAPY FOR BONE METASTASES? Shaheer Shahhat, Julian Kim, Nimesh Hanumanthappa, Youn Tae Chung, James Beck, Rashmi Koul, Bashir Bashir, Andrew Cooke, Jim Butler, Maged Nashed, William Hunter, Aldrich Ong, Arbind Dubey University of Manitoba, Winnipeg, MB</p> <p>42 FACTORS THAT PROMOTE MEDICAL STUDENT INTEREST IN RADIATION ONCOLOGY: A SURVEY OF CANADIAN RADIATION ONCOLOGY RESIDENTS Maryam Dosani¹, Meredith Giuliani², Daniel W. Golden³, Rachel Jimenez⁴, Ariel E. Hirsch⁵, Amanda Caissie⁶, Nauman Malik², Timothy Kong¹, Timothy K. Nguyen⁷, Paris-Ann Ingledew¹ ¹University of British Columbia, Victoria, BC ²University of Toronto, Toronto, ON ³University of Chicago, Chicago, IL ⁴Massachusetts General Hospital, Boston, MA ⁵Boston University School of Medicine, Boston, MA ⁶Dalhousie University, Saint John, NB ⁷Western University, London, ON</p>

Friday, September 25, 2020

TIME	EVENT
1:50 – 2:50pm	<p>Oral Session 4 – Education and Survivorship (41-46) Concurrent 2 (cont'd)</p> <p>43 EVALUATION OF A 3D-PRINTED-HEAD SIMULATION TECHNIQUE FOR TEACHING FLEXIBLE NASOPHARYNGOSCOPY TO RADIATION ONCOLOGY RESIDENTS Christopher Goodman¹, Justin Pautler², Christopher Balestrini¹, Santiago Cobos¹, Leah D'Souza³, Paige Eansor¹, Anthony Nichols¹, Madeleine Norris¹, Manas Sharma¹, Katherine Willmore¹, Andrew Warner¹, Donna Murrell², David Palma¹, Jasbir Jaswal³ ¹Western University, London, ON ²London Regional Cancer Program, London, ON ³University College Cork, Cork, IE</p> <p>44 ALIGNMENT OF REGULATORY EXAMINATIONS AND PUBLIC HEALTH PRIORITIES: EXPLORING THE REPRESENTATION OF CANCER IN THE MCCQE-1 Marissa Sherwood¹, Eleni Giannopoulous², Janet Papadakos², Meredith Giuliani¹ ¹University of Toronto, Toronto, ON ²Princess Margaret Cancer Centre, Toronto, ON</p> <p>45 PATIENT-REPORTED OUTCOMES, PHYSICIAN-REPORTED TOXICITY AND DOSIMETRY IN CERVICAL CANCER PATIENTS TREATED WITH CHEMO-RADIATION AND MR-GUIDED BRACHYTHERAPY Jessica Conway¹, Leigh Conroy¹, Sarah Ferguson¹, Aysha Zia¹, Amy Liu², Jessica Weiss², Alexandra Rink¹, Jennifer Croke¹ ¹University of Toronto, Toronto, ON ²Princess Margaret Cancer Centre, Toronto, ON</p> <p>46 EXAMINING CANNABIS USAGE AND CANNABIS-RELATED INFORMATION SOURCING FOR DISEASE MANAGEMENT IN CLINICAL ONCOLOGY Sunand Kannappan¹, James Ddamba¹, Kevin Martell¹, Rahul Arora², Rishi Sinha¹ ¹University of Calgary, Calgary, AB ²University of Oxford, Oxford, UK</p>
2:50 – 3:10pm	Break
3:10 – 4:00pm	<p>Gold Medal and Gordon Richards Lecture <i>Introduction: Laura Dawson</i></p> <p>A Radiation Oncologist's Perspective on Person Centred Care Lisa Barbera</p> <p>Objectives: After this session, the learners will be able to:</p> <ul style="list-style-type: none"> • discuss the tension between person centred care versus physician knows best care. • discuss the role of collaboration in person centred research. • consider the importance of how systems work to deliver person centred care.
4:00 – 4:30pm	<p>Awards, CROF Update and Closing Remarks Jennifer Croke, Andrea Bezzak, Meredith Giuliani</p>
4:30 – 6:00pm	<p>AGM <i>Facilitator: Secretariat Central</i></p>

Posters

Abstract #59-215

NO.	ABSTRACT TITLE
59	<p>DOSIMETRIC EVALUATION OF CHEST WALL SUPERFICIAL DOSE WITH OR WITHOUT BOLUS IN POSTMASTECTOMY RADIOTHERAPY</p> <p>Che Hsuan David Wu, Karen Long, Natalie Logie, Peter Craighead, Sarah Quirk, Michael Sia Tom Baker Cancer Centre, Calgary, AB</p>
60	<p>COMPARISON OF Y-90 DOSE-POINT-KERNELS AND DOSE-VOXEL-KERNELS IN HOMOGENEOUS AND VOXELIZED WATER PHANTOMS USING GATE</p> <p>Matthew Strugari, E. Courtney Henry, George Mawko, Alasdair Syme, Kimberly Brewer Dalhousie University, Halifax, NS</p>
61	<p>CONVENTIONAL AND MACHINE LEARNING ANALYSES TO DIFFERENTIATE SYSTEMATIC VERSUS RANDOM INTER-FRACTIONAL CHANGES IN A COHORT OF 250 HEAD AND NECK CANCER PATIENTS</p> <p>Sarah Weppler, Craig A. Beers, Lukas V. Dyke, Colleen Schinkel, Wendy Smith, Harvey Quon, Nabhya Harjai University of Calgary, Calgary, AB</p>
62	<p>A PROSPECTIVE PROVINCIAL PSMA-PET REGISTRY FOR RECURRENT PROSTATE CANCER: PRELIMINARY RESULTS</p> <p>Wei Liu¹, Glenn Bauman¹, Katherine Zukotynski², Antonio Finelli³, Joseph Chin¹, Laurence Klotz³, Himanshu Lukka², Luke Lavallee⁴, Marlon Hagerty⁵, Ur Metsler³</p> <p>¹Western University, London, ON ²McMaster University, Hamilton, ON ³University of Toronto, Toronto, ON ⁴University of Ottawa, Ottawa, ON ⁵Northern Ontario School of Medicine, Thunder Bay, ON</p>
63	<p>CREATION AND VALIDATION OF THE QIPCM AI DEVELOPMENT AND COLLABORATION ENVIRONMENT</p> <p>Brandon Driscoll, Tirth Patel, Tony Tadic, Jenny Lee, Shailaja Sajja, Duoaud Shah, Tina Shek, Luke Brzozowski, Ivan Yeung, Julia Publicover University Health Network, Toronto, ON</p>
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65	<p>FEASIBILITY OF AN ASSISTED CHART REVIEW FOR ASSESSING THE DEVELOPMENT OF RADIATION PNEUMONITIS</p> <p>Jordan McKenzie¹, Angela Lin², Rasika Rajapakshe², Hua Shen³, Jinying Wu³, Shan Rajapakshe⁴</p> <p>¹University of British Columbia, Prince George, BC ²University of British Columbia, Kelowna, BC ³University of Calgary, Calgary, AB ⁴University of British Columbia, Victoria, BC</p>
66	<p>EARLY DETECTION OF RECURRENCE IN PATIENTS TREATED WITH LUNG STEREOTACTIC ABLATIVE RADIOTHERAPY (SABR) USING RADIOMICS</p> <p>Tenzin Kunkyab¹, Benjamin Mou², Andrew Jirasek¹, Christina Haston¹, Jeffrey Andrews¹, Steven Thomas³, Derek Hyde¹</p> <p>¹University of British Columbia Okanagan, Kelowna, BC ²University of British Columbia, Kelowna, BC ³University of British Columbia, Vancouver, BC</p>

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67	HIGH-DOSE-RATE BRACHYTHERAPY USING A CUSTOM DESIGNED 3D PRINTED SURFACE MOULD APPLICATOR FOR TREATMENT OF REFRACTORY EXTRAMAMMARY PAGET'S DISEASE OF THE PERINEUM Amandeep Taggar, Melanie Davidson, Harry Easton, Ananth Ravi University of Toronto, Toronto, ON
68	EVALUATION OF REIRRADIATION OF FEMORAL BONE METASTASES AFTER POST-OPERATIVE RADIOTHERAPY Vincent Girard, Jennifer Cross, Kelly Linden, Kristopher Dennis, Marc Gaudet University of Ottawa, Ottawa, ON
69	RADIOTHERAPY IN PATIENTS WITH CARDIOVASCULAR IMPLANTABLE ELECTRONIC DEVICES: A SURVEY OF MULTI-DISCIPLINARY RADIATION ONCOLOGY PROFESSIONALS Amir H. Safavi ¹ , Alyaa H. Elzibak ² , Elysia K. Donovan ¹ , Jay S. Detsky ¹ , Alexander V. Louie ¹ ¹ University of Toronto, Toronto, ON ² Odette Cancer Centre, Toronto, ON
70	IMPLEMENTATION OF MRI SIMULATION IN EXTREMITY SOFT TISSUE SARCOMA Jordan Stosky, Mariana Araujo, Fabio Cury, Ives R. Levesque, Carolyn Freeman McGill University, Montreal, QC
71	FIRST TRAJECTORY-BASED VMAT CLINICAL DELIVERY IN CANADA: DYNAMIC WAVE ARC (DWA) Alanah Bergman ¹ , Marie-Laure Camborde ¹ , Cathy Crumley ¹ , Christina Cumayas ¹ , Don Dang ¹ , Ermais Gete ¹ , Tania Karan ¹ , Roy Ma ² , Cheryl Mark ¹ , Claudia Mendez ¹ , Tara Menna ¹ , Ante Mestrovic ¹ , Sandy Nakano ¹ , Amir Pourmoghaddas ¹ , Maryam Rostamzadeh ¹ , Hardeep Sahota ¹ , Isaac Tai ¹ , Allison Tammark ¹ , Scott Tyldesley ¹ ¹ British Columbia Cancer Agency, Vancouver, BC ² University of British Columbia, Vancouver, BC
72	DEEP LEARNING-BASED AUTO-SEGMENTATION FOR PELVIC ORGANS-AT-RISK AND CLINICAL TARGET VOLUMES IN INTRACAVITARY HIGH DOSE RATE BRACHYTHERAPY Jordan Wong ¹ , Carter Kolbeck ² , Jonathan Giambattista ³ , Joshua Giambattista ⁴ , Vicky Huang ⁵ , Jasbir Jaswal ⁵ ¹ British Columbia Cancer Agency, Vancouver, BC ² Independent, Toronto, ON ³ Saskatchewan Cancer Agency, Regina, SK ⁴ Saskatchewan Cancer Agency, Regina, SK ⁵ British Columbia Cancer Agency, Fraser Valley, Surrey, BC
73	APPLICATIONS OF DEEP LEARNING FOR AUTOMATIC CONTOURING OF TUMOURS IN THE BRAIN Robert Henderson ¹ , Joshua Giambattista ² , Niranjana Venugopal ³ , Egiroh Omene ¹ , Jonathan Giambattista ⁴ , Vijayananda Kundapur ² ¹ University of Saskatchewan, Saskatoon, SK ² Saskatchewan Cancer Agency, Regina, SK ³ University of Manitoba, Winnipeg, MB ⁴ Limbus AI, Regina, SK
74	DOSIMETRIC EVALUATION OF INTENSITY MODULATED RADIOTHERAPY VERSUS VOLUMETRIC MODULATED ARC THERAPY FOR FLAP-SPARING HYPOFRACTIONATED POST-MASTECTOMY RADIOTHERAPY Rashi Kulshrestha, David, Sasaki, Eric Vanuytven, Sashika Kumaragamage, Rashmi Koul, Boyd McCurdy, Andrew Cooke, Maged Nashed, Bashir Bashir University of Manitoba, Winnipeg, MB

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75	<p>USE OF THREE-DIMENSIONAL (3D) SURFACE SCANNER TO DEFINE TREATMENT VOLUMES IN NON-MELANOMA SKIN CANCER: A PILOT STUDY</p> <p>Harry C Brastianos, Aquila Akingbade, Tamas Ungi, Natasja Janssen, Chandra Joshi, Gabor Fichtinger, Timothy Hanna Queen's University, Kingston, ON</p>
76	<p>CAN CONFORMITY-BASED VOLUMETRIC MODULATED ARC THERAPY IMPROVE DOSIMETRY AND SPEED OF DELIVERY IN RADIATION THERAPY TO LUMBOSACRAL SPINE COMPARED TO CONVENTIONAL TECHNIQUES?</p> <p>Joanna Javor¹, Meagan Robbins², Tara Rosewall¹, Tim Craig¹, Conrad Villafuerte², Bernard Cummings¹, Laura Dawson¹ ¹University of Toronto, Toronto, ON ²Princess Margaret Cancer Centre, Toronto, ON</p>
77	<p>DOSIMETRIC COMPARISON OF CONFORMAL RADIATION THERAPY (CRT), IMRT AND VMAT FOR ESOPHAGEAL CANCER TREATED WITH EXTERNAL RADIATION</p> <p>Waqas Zia¹, Crystal Hann¹, Thomas Farrell¹, Martin Shim², Gregory Pond¹, Ranjan Sur¹ ¹McMaster University, Hamilton, ON ²Juravinski Cancer Centre, Hamilton, ON</p>
78	<p>DEVELOPMENT OF A TRAP TO ATTRACT AND ELIMINATE CANCER CELLS INFILTRATED INTO THE BRAIN</p> <p>Angela Giraldo¹, Nathalie Faucheux¹, Nick Virgilio², Marc-Antoine Lauzon¹, Suzanne Gascon¹, H��l��ne Therriault¹, Benoit Paquette¹ ¹Universit�� de Sherbrooke, Sherbrooke, QC ²��cole Polytechnique de Montr��al, Montr��al, QC</p>
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80	<p>SPIRONOLACTONE EXPOSURE IS ASSOCIATED WITH REDUCED INCIDENCE OF PROSTATE CANCER: A POPULATION-BASED PHARMACOEPIDEMIOLOGIC STUDY</p> <p>Bryan Janzen, Brett Hiebert, Rohan Sanjanwala, Aldrich Ong, Julian Kim, Ross Feldman University of Manitoba, Winnipeg, MB</p>
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82	<p>A CUSTOM EPIDRUG CRISPR KNOCKOUT SCREEN IDENTIFIES RGFP966 (HDAC3 INHIBITOR) AS A RADIOSENSITIZER OF SMALL CELL LUNG CANCER</p> <p>Mary Shi¹, Mansi Aparnathi², Safa Majeed¹, Lifang Song², Ratheesh Subramaniam³, Richard Marcellus³, Rima Al-awar¹, Troy Ketela², Hansen He¹, Benjamin Lok¹ ¹University of Toronto, Toronto, ON ²University Health Network, Toronto, ON ³Ontario Institute for Cancer Research, Toronto, ON</p>

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84	<p>Cancer Care Manitoba Foundation 2017 NON-INVASIVE EXPLORATION OF METABOLIC PROFILE OF LUNG CANCER WITH NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY</p> <p>Nataliya Moldovan¹, Le Wang², Zoann Nugent², Biniyam Kidane¹, Gefei Qing¹, Lawrence Tan¹, Gordon Buduhan¹, Sadeesh Srinathan¹, Michel Aliani¹, Naseer Ahmed²</p> <p>¹University of Manitoba, Winnipeg, MB ²CancerCare Manitoba, Winnipeg, MB</p>
85	<p>THE ROLE OF CYTOKINE SIGNALING IN THE REVERSAL OF CHRONIC LYMPHEDEMA</p> <p>Jennifer Yin Yee Kwan¹, Wenxi Xu², Vandana Sandhu³, Valentin Demidov¹, Willa Shi², Alex Vitkin³, Jennifer Jones³, Justin Williams², Siba Haykal¹, Benjamin Haibe-Kains³, David G. Brooks², Kenneth W. Yip², Fei-Fei Liu³</p> <p>¹University of Toronto, Toronto, ON ²University Health Network, Toronto, ON ³Princess Margaret Cancer Centre, Toronto, ON</p>
86	<p>CAN WE TRANSCEND THE NORMAL TISSUE PRESERVING CAPACITY OF SYNCHROTRON GENERATED MICRO-BEAMS TO LINEAR ACCELERATORS IN REGULAR CLINICAL USE-FINDINGS OF A PHASE III RANDOMIZED STUDY</p> <p>Vijayananda Kundapur, Monique Mayer, Roland Auer, Andrew Alexander University of Saskatchewan, Saskatoon, SK</p>
87	<p>IS PROSTATE BRACHYTHERAPY A DYING ART? EVIDENCE OF INCREASING UTILIZATION IN ONTARIO</p> <p>Mark T. Corkum¹, Gerard Morton², Alexander V. Louie², Glenn S. Bauman¹, Lucas C. Mendez¹, David P. D'Souza¹, Robert E. Dinniwell¹, Vikram M. Velker¹, Andrew Warner¹, George B. Rodrigues¹</p> <p>¹London Health Sciences Centre, London, ON ²University of Toronto, Toronto, ON</p>
88	<p>HIGH DOSE-RATE BRACHYTHERAPY MONOTHERAPY (HDR-M) VERSUS BOOST (HDR-B) IN INTERMEDIATE RISK PROSTATE CANCER: PROPENSITY SCORE MATCHED ANALYSIS OF CANADIAN DATA</p> <p>Saad Alrashidi, Andrew Loblaw, Hans T. Chung, Chia-Lin Tseng, Ananth Ravi, Liying Zhang, Gerrard Morton University of Toronto, Toronto, ON</p>
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90	<p>POPULATION-BASED ANALYSIS OF TREATMENT FACTORS AND OUTCOMES OF COMBINED MODALITY THERAPY WITH LOW-DOSE-RATE BRACHYTHERAPY (LDR-PB) IMPLANT WITH EXTERNAL BEAM RADIOTHERAPY (EBRT) FOR HIGH AND INTERMEDIATE-RISK PROSTATE CANCER</p> <p>Justin Oh, Ingrid Spadinger, Vincent Lapointe, James Morris University of British Columbia, Vancouver, BC</p>

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92	<p>RADIATION DOSE TO ORGANS AT RISK AFTER HIGH DOSE RATE BRACHYTHERAPY FOR ESOPHAGEAL CANCER PATIENTS</p> <p>Sahar Darvish-Molla¹, Emilia Timotin¹, Jack Skoczny¹, Thomas Farrell¹, Ranjan K. Sur² ¹Juravinski Cancer Centre, Hamilton, ON ²McMaster University, Hamilton, ON</p>
93	<p>CHANGING LANDSCAPE OF INTERSTITIAL BRACHYTHERAPY IN CANADA: A PAN-CANADIAN SURVEY OF RADIATION ONCOLOGISTS TREATING CERVICAL CANCER</p> <p>Amandeep Taggar¹, Kevin Martell², Eric Leung¹, Robyn Banerjee², Israel Fortin³, Corinne Doll² ¹University of Toronto, Toronto, ON ²University Of Calgary, Calgary, AB ³Université de Montréal, Montreal, QC</p>
94	<p>OUTCOMES OF BRACHYTHERAPY FOR AIRWAY DISEASE- SINGLE INSTITUTION EXPERIENCE</p> <p>Zain Siddiqui, Conrad Falkson, Wilma Hopman, Amer Mahmud Queen's University, Kingston, ON</p>
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96	<p>INTRAOPERATIVE MRI-GUIDED BRACHYTHERAPY FOR CERVICAL CANCER: AN INSTITUTIONAL EXPERIENCE OF TREATMENT WORKFLOW, PLANNING AND PATIENT TOXICITY</p> <p>Eric Leung¹, Laura D'Alimonte¹, Lisa Barbera², Elizabeth Barnes¹, Amandeep Taggar¹, Elysia Donovan¹, Ananth Ravi¹ ¹University of Toronto, Toronto, ON ²University of Calgary, Calgary, AB</p>
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98	<p>IMPROVING APBI (ANALGESIA FOR PAIN WITH BRACHYTHERAPY IMPLANTS): A NOVEL TECHNIQUE USING PECS BLOCK FOR PATIENTS UNDERGOING MULTICATHETER HDR BREAST BRACHYTHERAPY IMPLANTS</p> <p>Martin Korzeniowski, Gregory Klar, Rachel Rooney, Mary Westerland, Conrad Falkson, Glenio Mizubuti Queen's University, Kingston, ON</p>
99	<p>DOES REAL-TIME INTRA-OPERATIVE DOSIMETRY PREDICT FOR POST-OPERATIVE DOSIMETRY? AN ANALYSIS OF 101 IMPLANTS WITH POST-OPERATIVE MR-CT IMAGING.</p> <p>Andrew Arifin, David D'Souza, Linada Berryhill, Homeira Mosalaei, Matt Mulligan, Kevin Jordan, Craig Lewis, Stephen Sawchuk, Vikram Velker, Glenn Bauman, Lucas Mende Western University, London, ON</p>

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100	ELECTROMAGNETIC-GUIDED INTERSTITIAL CATHETER NAVIGATION FOR GYNECOLOGICAL BRACHYTHERAPY: A PHASE I TRIAL (E-MINT) Alam Khan ¹ , Ananth Ravi ¹ , Eric Leung ² ¹ Ryerson University, Toronto, ON ² University of Toronto, Toronto, ON
101	ACTIVE SURVEILLANCE BEFORE RADIOTHERAPY: OUTCOME AND PREDICTIVE FACTORS FOR MULTIPLE BIOPSIES BEFORE TREATMENT Alexandre Alcaidinho, Guila Delouya, Jean-Paul Bahary, Fred Saad, Daniel Tausky Université de Montréal, Montréal, QC
102	2D ICRU-BASED VERSUS 3D IMAGE-GUIDED PLANNING IN HIGH DOSE RATE BRACHYTHERAPY FOR CERVICAL CANCER – A STUDY ON EFFICACY AND TREATMENT-RELATED TOXICITIES Mame Daro Faye, Mariana Petruccelli Araujo, Khalid Alrabiah, Michel D. Wissing, Joanne Alfieri McGill University Health Centre, Montréal, QC
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104	IMPLICATIONS OF ONCOPLASTIC PARTIAL MASTECTOMY ON RADIATION BOOST DELIVERY IN LOCALIZED BREAST CANCER Adam Gladwish ¹ , Carly Sauve ² , Giulio Didiolato ¹ , Jessica Conway ¹ , Christiaan Stevens ¹ , Matthew Follwell ¹ , Tiffany Tam ¹ , Julia Skliarenko ¹ , Jesse Mclean ¹ , Renee Hanrahan ¹ ¹ University of Toronto, Barrie, ON ² University of Guelph, Guelph, ON
105	IS WHOLE BREAST IRRADIATION BETTER THAN ENDOCRINE THERAPY IN EARLY STAGE BREAST CANCER? A NETWORK META-ANALYSIS OF PUBLISHED RANDOMIZED TRIALS Jan Haussmann ¹ , Stefanie Corradini ² , Freddy Djiepmo Njanang ¹ , Edwin Boelke ¹ , Wilfried Budach ¹ , Balint Tamaskovics ¹ , Kai Kammers ³ , Christiane Matuschek ¹ ¹ Heinrich Heine University, Dusseldorf, DE ² LMU, Munich, DE ³ The Johns Hopkins University School of Medicine, Baltimore, MD
106	PAN-CANADIAN SURVEY ON CURRENT ACCELERATED PARTIAL BREAST IRRADIATION PRACTICES Nina Samson ¹ , Tien Phan ¹ , Peter Craighead ¹ , Petra Grendarova ² ¹ University of Calgary, Calgary, AB ² University of Calgary, Grande Prairie, AB
107	REPEATED WHOLE BRAIN RADIATION FOR SMALL CELL LUNG CANCER PATIENTS WITH NEW, RECURRENT, OR PROGRESSIVE BRAIN METASTASES Soha Atallah, Chin Heng Fong, Zhihui Amy Liu, Normand Laperriere, David Shultz, Laura Dawson, Andrea Bezjak, Barbara-Ann Millar University of Toronto, Toronto, ON
108	OUTCOME OF LOCALLY ADVANCED ESOPHAGEAL CANCER PATIENTS TREATED WITH PERIOPERATIVE CHEMOTHERAPY AND CHEMORADIOTHERAPY FOLLOWED BY SURGERY Justin Owen, Michael Abdalmassih, Junaid Khan, Zoann Nugent, Gordon Buduhan, Naseer Ahmed University of Manitoba, Winnipeg, MB
109	IDEAL RADIATION DOSE-SCHEDULE FOR NEOADJUVANT TREATMENT OF LOCALLY ADVANCED RECTAL CANCER Aswin George Abraham ¹ , Kurian Joseph ¹ , JoAnn Thai ¹ , Sunita Ghosh ¹ , Winson Cheung ² , Yuan Xu ² , Diane Severin ¹ , Keith Tankel ¹ , Tirath Nijjar ¹ , Nawaid Usmani ¹ ¹ University of Alberta, Edmonton, AB ² University of Calgary, Calgary, AB

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110	<p>IMPROVED SURVIVAL WITH THE USE OF CAPECITABINE IN THE SETTING OF NEOADJUVANT CHEMO-RADIATION FOR LOCALLY ADVANCED RECTAL CANCER PATIENTS</p> <p>Aswin George Abraham, Nawaid Usmani, Karen Mulder, JoAnn Thai, Sunita Ghosh, Diane Severin, Keith Tankel, Tirath Nijjar, Kurian Joseph University of Alberta, Edmonton, AB</p>
111	<p>OUTCOMES AND DOSE ESCALATION USING MODERN RADIOTHERAPY TECHNIQUES: A RETROSPECTIVE REVIEW OF ANAL CANCER TREATED AT A LARGE ACADEMIC INSTITUTION BETWEEN 2010 AND 2016</p> <p>Sonja Murchison¹, Siavash Atrchian², Kimberly DeVries³ ¹University of British Columbia, Vancouver, BC ²University of British Columbia, Kelowna, BC ³British Columbia Cancer Agency, Vancouver, BC</p>
112	<p>QUALITY OF ONLINE HEPATOCELLULAR CARCINOMA PATIENT RESOURCES – MEANINGFUL IMPACT OR POOR “DE-LIVERY”?</p> <p>Jim (Zhang Hao) Li¹, Jane McLeod², Paris-Ann Ingledew¹ ¹University of British Columbia, Vancouver, BC ²University of Alberta, Edmonton, AB</p>
113	<p>HEMATOLOGIC CHANGES ASSOCIATED WITH PROSTATE RADIOTHERAPY AND ANDROGEN DEPRIVATION THERAPY</p> <p>Yousef Katib¹, Benjamin Royal-Preyra², Tania Sasson¹, Ahmad Chaddad³, Paul Sargos³, Boris Bahoric³, Tamim Niazi³ ¹McGill University, Montreal, QC ²McGill University Health Centre, Montreal, QC ³Jewish General Hospital, Montreal, QC</p>
114	<p>PELVIC RADIOTHERAPY IN NODE POSITIVE BLADDER CANCER – OUTCOMES IN A SELECTED COHORT</p> <p>Michael C Tjong¹, Isis Lunsky², Khaled Ajib¹, Srikala S Sridhar¹, Neil Fleshner¹, Alexandre Zlotta¹, Alejandro Berlin¹, Girish S Kulkarni¹, Peter Chung¹ ¹University of Toronto, Toronto, ON ²McMaster University, Hamilton, ON</p>
115	<p>LOCAL PROSTATE RADIOTHERAPY IN PATIENTS WITH METASTATIC PROSTATE CANCER AND SYMPTOMATIC LOCAL EVENTS</p> <p>Jaime K. Kwok, Kevin Martell, Michael Sia, Bimal Bhindi, Tasnima Abedin, Shuang Lu, Harvey Quon University of Calgary, Calgary, AB</p>
116	<p>PATIENTS WITH CERVIX CANCER RECEIVING RADIOTHERAPY: RESULTS OF A SYSTEMATIC LITERATURE REVIEW OF PATIENT REPORTED OUTCOMES FOR USE IN CLINICAL PRACTICE</p> <p>Jennifer O’Donnell, Michael Palmer, Michael Brundage Queen’s University, Kingston, ON</p>
117	<p>A SURVEY OF CANADIAN RADIOTHERAPY PRACTICES IN CERVICAL CANCER</p> <p>Kevin Martell¹, Amandeep Taggar², Robyn Banerjee¹, Eric Leung², Israel Fortin³, Corinne Doll¹ ¹University of Calgary, Calgary, AB ²University of Toronto, Toronto, ON ³Université de Montréal, Montreal, QC</p>
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120	EVALUATION OF ADJUVANT RADIOTHERAPY IN THE MANAGEMENT OF EARLY STAGE CERVICAL CARCINOMA Laura Burgess, Wafa Al Duwaisan, Tien Le, Rajiv Samant University of Ottawa, Ottawa, ON
121	POPULATION-BASED COMPARISON OF OUTCOMES BY IMMUNOSUPPRESSION STATUS IN PATIENTS UNDERGOING RADIOTHERAPY FOR SQUAMOUS CELL CARCINOMA OF THE OROPHARYNX Sarah Hamilton ¹ , Ryan Urban ¹ , Alvin Liu ² , Nicole Chau ¹ , Eric Berthelet ¹ , Jonn Wu ¹ , Eric Tran ¹ , Yaling Yin ¹ , Robert Olson ³ ¹ British Columbia Cancer Agency, Vancouver, BC ² University of British Columbia, Vancouver, BC ³ British Columbia Cancer Agency, Prince George, BC
122	RISK OF CHRONIC OPIOID USE AFTER RADIATION FOR HEAD AND NECK CANCER: A SYSTEMATIC REVIEW AND META-ANALYSIS Sondos Zayed, Cindy Lin, Gabriel Boldt, Nancy Read, Lucas Mendez, Varaguar Venkatesan, Jinka Sathya, Dwight Moulin, David A. Palma Western University, London, ON
123	ADJUVANT RADIOTHERAPY FOR RECURRENT PLEOMORPHIC ADENOMA Shen Zhang ¹ , Houda Bahig ¹ , Tamim Niazi ² , Michael Hier ² , Alex Mlynarek ² , George Shenouda ² , Anthony Zeitouni ² , Khalil Sultanem ² ¹ Université de Montréal, Montréal, QC ² McGill University, Montréal, QC
124	ASSESSING PREDICTORS OF LOCOREGIONAL FAILURE FOLLOWING SURGICAL RESECTION OF NON-METASTATIC SALIVARY GLAND CARCINOMA AND THE ROLE OF POST-OPERATIVE RADIOTHERAPY Adrian Cozma ¹ , Fatima Alfaraj ² , Jelena Lukovic ¹ , Jie Su ¹ , Wei Xu ¹ , Michelle Lynn Mierzwa ³ , Fabio Ynoe de Moraes ⁴ , Shao Hui Huang ¹ , Scott Victor Bratman ¹ , Meredith Giuliani ¹ , Andrew Hope ¹ , John Kim ¹ , Jolie Ringash ¹ , John Waldron ¹ , John R. de Almeida ¹ , David Paul Goldstein ¹ , Andrew Rosko ³ , Mathew E. Spector ³ , Luiz Paulo Kowalski ⁵ , Gustavo Nader Marta ⁶ , Ali Hosni ¹ ¹ University of Toronto, Toronto, ON ² British Columbia Cancer Agency, Prince George, BC ³ University of Michigan, Ann Arbor, MI ⁴ Queen's University, Kingston, ON ⁵ A.C. Camargo Cancer Centre, São Paulo, BR ⁶ Universidade de São Paulo, Hospital Sírio-Liabnês, Sao Paulo, BR
125	IDENTIFICATION OF PRIMARY IN PRIMARY UNKNOWN METASTATIC SQUAMOUS CELL CARCINOMA OF THE HEAD AND NECK: A MODERN UPDATE ON THE ROLE OF PET Stephanie Gulstene, Adam Mutsaers, Kevin Fung, Danielle MacNeil, Adrian Mendez, Lucas Mendez, Nancy Read, Jinka Sathya, Varagur Venkatesan, John Yoo, Anthony Nichols, David Palma Western University, London, ON
126	RADICAL RADIOTHERAPY WITH REACTIVE VERSUS PROPHYLACTIC GASTROSTOMY TUBE PLACEMENT: AN ASSESSMENT OF PATIENT-BASED OUTCOMES IN OROPHARYNGEAL CANCER Rawy Shaaban, Khaled Zaza, Gregory Paulin, Wilma Hopman Queen's University, Kingston, ON

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139	IN SILICO BIOPSY OF ONLINE CANCER RESOURCE QUALITY – HIGH OR LOW GRADE? Zhang Hao (Jim) Li, Timothy Kong, Veronika Boyeva, Lisa Wang, Paris-Ann Ingledew University of British Columbia, Vancouver, BC
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149	<p>PROVINCIAL ANALYSIS OF THE USE OF PROBLEM TYPE "OTHER" CLASSIFICATION FOR RADIATION INCIDENT DATA TO IMPROVE THE QUALITY OF DATA ANALYSIS AND OVERALL CARE FOR PATIENTS IN ONTARIO</p> <p>Erika Hammer¹, Julie Kraus¹, Cassandra Costello², Thomas Farrell³, Renée Roy⁴, Lyndon Morley⁵</p> <p>¹Odette Cancer Centre, Toronto, ON ²Simcoe Muskoka Regional Cancer Centre, Barrie, ON ³McMaster University, Hamilton, ON ⁴Northeast Cancer Centre, Sudbury, ON ⁵Princess Margaret Cancer Centre, Toronto, ON</p>
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153	<p>COMPARISON OF DATA PRESENCE AND READABILITY OF SYNOPTIC AND DICTATED REPORTS OF INITIAL CONSULTATIONS FOR RADIATION THERAPY: A RETROSPECTIVE REVIEW</p> <p>Sunand Kannappan¹, Rohit Arora¹, Rahul Arora², Rishi Sinha</p> <p>¹University of Calgary, Calgary, AB ²University of Oxford, Oxfordshire, UK</p>

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163	<p>MAPPING THE CURRENT STATE OF CANADIAN ONCOLOGY INTEREST GROUPS</p> <p>George J. Li¹, Nauman H. Malik¹, Meredith Giuliani¹, Michael Brundage², Amanda Caissie³, Jeffrey Q. Cao⁴, Ross Halperin⁵, Paris-Ann Ingledew⁶, Eric Vigneault⁷, Andrea Bezjak¹</p> <p>¹University of Toronto, Toronto, ON ²Queen's University, Kingston, ON ³Dalhousie University, Saint John, NB ⁴University of Calgary, Calgary, AB ⁵The University of British Columbia, Kelowna, BC ⁶The University of British Columbia, Vancouver, BC ⁷University of Laval, Quebec, QC</p>
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173	THE USE OF PATIENT HEALTH INFORMATION OUTSIDE THE CIRCLE OF CARE: NEEDS AND PREFERENCES OF PATIENTS AT A LARGE ACADEMIC CANCER CENTRE Indu Voruganti ¹ , Sarah Tosoni ¹ , Rebecca Wong ¹ , Don Willison ¹ , Carl Virtanen ² , Ann Heesters ¹ , Fei-Fei Liu ¹ ¹ University of Toronto, Toronto, ON ² University Health Network, Toronto, ON
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175	CARE CLOSER TO HOME: THE IMPACT OF RADIATION CAPITAL INVESTMENTS ON EQUITABLE ACCESS TO CARE Audrey Wong, Sophie Foxcroft, Brian Liszewski, Eric Gutierrez, Padraig Warde, Diane Burns, Jonathan Wang Cancer Care Ontario, Toronto, ON
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179	<p>VARIABILITY OF PATIENT-REPORTED EXPERIENCE BETWEEN DIFFERENT TUMOUR GROUPS BASED ON THE AMBULATORY ONCOLOGY PATIENT SATISFACTION SURVEY</p> <p>Abdulla Al-Rashdan¹, Lisa Barbera¹, Demetra Yannitsos¹, Linda Watson¹, Siwei Qi¹, Petra Grendarova²</p> <p>¹University of Calgary, Calgary, AB ²University of Calgary, Grande Prairie, AB</p>
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181	<p>EPIDEMIOLOGY OF SYNCHRONOUS LUNG METASTASES</p> <p>Hanbo Chen¹, Kelsey Stoltzfus², Eric Lehrer², Samantha Horn², Shankar Siva³, Daniel Trifiletti⁴, Mao-Bin Meng⁵, Vivek Verma⁶, Alexander Louie⁷, Nicholas Zaorsky²</p> <p>¹Vrije Universiteit, Amsterdam, NL ²Pennsylvania State University, Hershey, PA ³University of Melbourne, Parkville, AU ⁴Mayo Clinic, Jacksonville, FL ⁵Tianjin Medical University, Tianjin, China ⁶Allegheny General Hospital, Pittsburgh, PA ⁷University of Toronto, Toronto, ON</p>
182	<p>TOWARDS GENDER EQUALITY AND EQUITY IN RADIATION ONCOLOGY: CAREER ENTRY AND EXIT TRENDS IN THE CANADIAN RADIATION ONCOLOGIST WORKFORCE WITH PROJECTION MODELING TO 2040</p> <p>Jaime K. Kwok, Nina Samson, Corinne M. Doll, Lisa Barbera, Shaun K. Loewen</p> <p>University of Calgary, Calgary, AB</p>

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185	<p>THE LAY OF THE LAND: CANCER CARE FOR FIRST NATIONS, INUIT, AND MÉTIS PEOPLES OF CANADA</p> <p>Matthew Beckett¹, Jessica Chan¹, Marc Gaudet¹, Danielle Rodin², Jean-Marc Bourque¹</p> <p>¹University of Ottawa, Ottawa, ON ²University of Toronto, Toronto, ON</p>
186	<p>A PAN-CANADIAN APPROACH TO PATIENT-CENTERED QUALITY IMPROVEMENT INITIATIVES: DEVELOPMENT AND PROMOTION OF PATIENT EDUCATION, ENGAGEMENT AND PATIENT REPORTED OUTCOME GUIDANCE DOCUMENTS</p> <p>Merrylee McGuffin¹, Brian Liszewski¹, Amanda Caissie², Erika Brown³, Lianne Wilson³, Louise Bird³, Michael Milosevic¹</p> <p>¹University of Toronto, Toronto, ON ²Dalhousie University, Saint John, NB ³Canadian Partnership for Quality Radiotherapy, Grimsby, ON</p>
187	<p>MAMMOGRAPHIC SURVEILLANCE IN OLDER WOMEN WITH BREAST CANCER IN CANADA AND THE UNITED STATES: ARE WE CHOOSING WISELY?</p> <p>Danielle Rodin¹, Rachel Glicksman¹, Pragma Kakani², Kathryn Clark², Matthew Cheung¹, Simron Singh¹, Meredith Rosenthal², Anna Sinaiko²</p> <p>¹University of Toronto, Toronto, ON ²Harvard T. H. Chan School of Public Health, Boston, MA</p>
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190	<p>A NOVEL METHODOLOGY TO ESTIMATE THE NEED FOR PROTON BEAM THERAPY</p> <p>Brian Liszewski, Jonathan Wang, Sophie Foxcroft, Pdraig Warde, Robin McLeod, Garth Matheson</p> <p>Cancer Care Ontario (Ontario Health), Toronto, ON</p>

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192	<p>MAGNETIC RESONANCE-GUIDED ADAPTIVE RADIOTHERAPY REDUCES THE NORMAL TISSUE COMPLICATION PROBABILITY OF ADRENAL STEREOTACTIC ABLATIVE RADIOTHERAPY</p> <p>Hanbo Chen, John van Sornsens de Koste, Omar Bohoudi, Ben Slotman, Miguel Palacios, Suresh Senan, Frank Lagerwaard Vrije Universiteit, Amsterdam, NL</p>
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194	<p>CARDIAC TOXICITY IN CENTRAL NON-SMALL CELL LUNG TUMOURS TREATED WITH STEREOTACTIC BODY RADIATION THERAPY (SBRT) – IS THERE A “NO-FLUTTER ZONE”?</p> <p>Elysia Donovan¹, Gordon Okawara², Jim Wright², Theodoros Tsakiridis², Anand Swaminath² ¹University of Toronto, Toronto, ON ²McMaster University, Hamilton, ON</p>
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