



Improving Care Through Education, Advocacy, Quality of Life and Beyond
September 13-16, 2017 – Hilton Hotel Toronto, Toronto ON

WORKING COPY: May 16, 2017

Wednesday September 13, 2017

Preconference – Resident Refresher Course
Convention Level - Toronto I

Facilitator: Meredith Giuliani

Objectives: Upon completion of this refresher course, participants will be able to:

- Give an evidence-based overview of the indications for brachytherapy for prostate, cervix, lung and esophageal cancers.
- Review the normal tissue tolerances, and acute and late side effects associated with various brachytherapy techniques.
- Explore emerging frontiers for the use of brachytherapy in cancer care.
- Develop skills in IMRT plan review and solving challenging image-guidance problems in clinical practice.

7:15-8:00	Registration and Breakfast
8:00-8:10	Welcome and Introductions Meredith Giuliani
8:15-9:15	LDR Prostate Brachytherapy Mira Keyes
9:15-10:15	HDR Brachytherapy Gerard Morton
10:15-10:30	Break
10:30-11:30	Cervix Brachytherapy Israel Fortin
11:30-12:30	HDR Lung and Esophageal Brachytherapy Ranjun Sur
12:30-1:30	Lunch
1:30-2:30	Plan Literacy and Principles of Reviewing RT Plans John Kim
2:30-4:00	Challenging IGRT Cases and how to solve them Douglas Moseley, James Loudon
5:00	Resident Social (off site)
6:00-7:30	CARO Board Meeting

Preconference
Evolving Trends in Canadian Radiation Oncology
Toronto II

Facilitator: Jennifer Croke

Objectives: This course is for radiation oncologists who would like an update to refresh their knowledge or skills in site specific topics, particularly with Canadian content. It is important for maintenance of continuing education and lifelong learning.

At the end of this session, participants will have reviewed:

- Current treatment techniques and planning, including contouring, specific margins, standard doses and fractionation.
- Latest in clinical trials.
- Effects of the combination of radiation therapy and new immunotherapy agents.
- Tips and tricks on how to solve challenging cases in IGRT.

9:30-9:40	Welcome and Introductions Jennifer Croke
9:40-10:10	CNS Arjun Sahgal
10:10-10:40	Breast Anne Koch
10:40-11:00	Break
11:00-11:30	Prostate Andrew Loblaw
11:30-12:00	Immunotherapy and Radiation Oncology Scott Bratman
12:00-12:30	SBRT Laura Dawson
12:30-1:30	Lunch
1:30-2:00	Sarcoma Peter Chung
2:00-2:30	Break
2:30-4:00	Challenging IGRT Cases and how to solve them

Thursday September 14, 2017

- 7:00-8:00 Meet and Greet
(by invitation only)
Governor General
- 7:00-8:00 Registration and Breakfast
Convention Level
- 8:00-8:15 Welcome and Introductions
Toronto I/II
- Fabio Cury
Eric Vigneault
- 8:15-10:15 Theme Symposium
Coming Soon! Competence by Design – What You Need to Know
Moderator: Meredith Giuliani
- Objectives: At the end of this session, the participants will be able to:
- Demonstrate an understanding of the context and rationale for competency based medical education (CBME).
 - Introduce what has been done in Radiation Oncology for Competence By Design (CBD).
 - Identify opportunities and challenges related to the implementation of CBD.
 - Identify assessment strategies in competency-based education.
 - Explore strategies to facilitate training in the CBD era.
- 8:15-8:30 Welcome and Overview of CBME
Meredith Giuliani
- 8:30-9:00 What has been done in Radiation Oncology
Theresa Trotter, Barbara-Ann Millar
- 9:00-9:20 Opportunities and Challenges
Brock Debenham
- 9:20-10:00 Panel and Strategies on Implementing Competence by Design
Joanne Alfieri, Paris-Anne Ingledew
- 10:00-10:15 Close and Next Steps
Meredith Giuliani, Barbara-Ann Millar
- 10:15-10:45 Break
- 10:45-11:45 CARO Lecture
Moderator: Eric Vigneault
- Unlocking the Potential of Patient-Reported Outcomes
Claire Snyder
- Objectives: At the end of this session, the participants will be able to:
- Discuss the important, and somewhat unrealized, potential of patient-reported outcomes to improve the quality of cancer care at multiple levels, including at the patient-clinician interface, in clinical research, and for performance improvement.

11:45-1:45

Lunch

Industry Symposium

Committee Meetings

1:45-2:45

Oral Session 1 – Breast Cancer

Toronto I

Moderators:

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

- Recognize important aspects of treatment planning and delivery for breast cancer.
- Review current practices and outcomes of radiation therapy for breast tumours.

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HEMATOPOETIC STEM CELL AND INFLAMMATORY CYTOKINE LEVELS ARE ASSOCIATED WITH FATIGUE AND INSOMNIA IN BREAST CANCER PATIENTS TREATED WITH ADJUVANT RADIATION THERAPY

Fei-Fei Liu, Willa Shi, Megan McCusker, Justin Williams, J (Susie) Su, Tara Spence, Madeline Li, Wei Xu, Laleh S Ghorraie, Kathy Han, Scott Bratman, Kenneth Yip

Princess Margaret Cancer Centre, Toronto, ON

2

LONG-TERM OUTCOMES OF MICROINVASIVE BREAST CANCER IN THE CANADIAN HYPOFRACTIONATION TRIAL

Mira Goldberg¹, Sameer Parpia², Eileen Rakovitch³, Laval Grimard⁴, Julie Bowen⁵, Himanshu Lukka², Francisco Perera⁶, Anthony Fyles⁷, Timothy Whelan¹

¹Juravinski Cancer Centre, Hamilton, ON

²McMaster University, Hamilton, ON

³Odette Cancer Centre, Toronto, ON

⁴University of Ottawa, Ottawa, ON

⁵Northeastern Ontario Regional Cancer Centre, Sudbury, ON

⁶London Health Sciences Centre, London, ON

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SIMPLE IMPLEMENTATION OF A DIBH TANGENTIAL IMRT TECHNIQUE FOR LEFT-SIDED BREAST CANCER

Dominique Mathieu, Nicolas Côté, Andrée-Anne Bernard, Noémie Lahaie, Stéphane Bedwani, Jean-François Aubry, David Roberge, Sophie Lavertu, Pierre Rousseau, Toni Vu

Université de Montréal, Montréal, QC

4 ELEKTA FELLOWSHIP

RADIATION THERAPY PRESCRIBING PATTERNS ACROSS 6 BREAST CANCER SCENARIOS

Theodora A Koulis¹, Caroline Speers², Jeremy Hamm², Alexa Dang¹, Josh Power¹, Alan Nichol², Scott Tyldesley², Robert Olson²

¹British Columbia Cancer Agency, Prince George, BC

²British Columbia Cancer Agency, Vancouver, BC

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ARE WE MISSING THE POST-OPERATIVE CAVITY IN WHOLE BREAST
RADIOTHERAPY?

Grace Lee¹, Felix Tsui¹, Anne Koch¹, Anthony Fyles¹, Robert Dinniwell²,
¹Princess Margaret Cancer Centre, Toronto, ON
²University of Western Ontario, London, ON

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SECOND CONSERVATIVE TREATMENT FOR BREAST CANCER LOCAL
RECURRENCE USING HDR INTERSTITIAL BRACHYTHERAPY: COSMETIC
OUTCOME AND QUALITY OF LIFE

Marjory Jolicoeur¹, Aly-Thiéman Diakit², Talar Derashodian², Maryse Mondat²
¹Hopital Charles LeMoyné CICM, Montréal, QC
²University of Sherbrooke, Longueuil, QC

Oral Session 2 – Palliative Care

Toronto II

Moderators:

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

- Describe several important aspects involved in the decision-making process by radiation oncologists treating patients in need for palliative treatment.

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PALLIATIVE THORACIC RADIOTHERAPY IN ASYMPTOMATIC CENTRALLY
LOCATED NON SMALL CELL LUNG CANCER (NSCLC) - TO TREAT OR TO
DEFER

Anil Tibdewal¹, Andrea Bezjak¹, Lisa Le¹, Kathy Pope², Sarika Gill¹, Joseph
Nachman¹, Andrew Hope¹, Laura Dawson¹, Rebecca Wong¹
¹Princess Margaret Cancer Centre, Toronto, ON
²Peter MacCallum Cancer Center, Melbourne, Victoria, Australia

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ASSESSING THE UTILITY OF A PROGNOSTICATION MODEL TO PREDICT
1-YEAR MORTALITY IN PATIENTS RECEIVING RADIATION THERAPY FOR
SPINAL METASTASES

Diana Shi¹, Yu-Hui Chen², Tai Chung Lam³, Dana Leonard², Andrew
Schoenfeld², Tracy Balboni², Sonia Skamene², John Chi², Marco Ferrone²,
Charles Cho², Mitchel Harris², Lauren Hertan²
¹Harvard Medical School, Boston, MA
²Brigham and Women's Hospital/Dana-Farber Cancer Institute, Boston, MA
³The University of Hong Kong, Hong Kong

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BARRIERS TO REFERRAL FOR PALLIATIVE RADIOTHERAPY: A
SYSTEMATIC REVIEW

Jonathan Klein¹, Jonathan Livergant²
¹University of Toronto, Toronto, ON
²British Columbia Cancer Agency, Victoria, BC

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BEHAVIOURAL DETERMINANTS OF CANADIAN RADIATION ONCOLOGISTS'
USE OF SINGLE FRACTION PALLIATIVE RADIATION THERAPY FOR
UNCOMPLICATED BONE METASTASES

Kristopher Dennis¹, Janet Squires¹, Sarah Asad², Kristin Dorrance², Alysa Fairchild³, Edward Chow⁴, Rebecca Wong³, Ian Graham¹, Jeremy Grimshaw¹

¹University of Ottawa, Ottawa, ON

²Ottawa Hospital Research Institute, Ottawa, ON

³University of Alberta, Edmonton, AB

⁴University of Toronto, Toronto, ON

11
ASSESSING THE UTILITY OF THE SPINAL INSTABILITY IN NEOPLASIA
(SINS) SCORE TO PREDICT FRACTURE AFTER CONVENTIONAL
RADIATION THERAPY (RT) FOR SPINAL METASTASES

Diana Shi¹, Lauren Hertan², Tai Chung Lam³, Sonia Skamene², John Chi², Charles Cho², Marco Ferrone², Mitchel Harris², Yu-Hui Chen², Tracy Balboni²

¹Harvard Medical School, Boston, MA

²Brigham and Women's Hospital/Dana-Farber Cancer Institute, Boston, MA

³The University of Hong Kong, Hong Kong

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ARE PHYSICIANS FOLLOWING GUIDELINES? A REVIEW OF RADIATION
ONCOLOGY PRACTICE IN PATIENTS WITH UNCOMPLICATED BONE
METASTASES

Vanessa Di Lalla¹, Bernard Fortin², Catherine Pembroke¹, Carolyn Freeman¹, Michael Yassa², Tarek Hijal¹

¹McGill University, Montreal, QC

²Hopital Maisonneuve Rosemont, Montreal, QC

2:45-3:45

Poster Discussion Session 1

Toronto I

Moderators:

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

- Discuss a variety of projects and research being conducted across the country in radiation oncology.

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OBJECTIVE EVALUATION OF A STRUCTURED DIDACTIC RADIATION
ONCOLOGY CLERKSHIP CURRICULUM: A REPORT FROM THE RADIATION
ONCOLOGY EDUCATION COLLABORATIVE STUDY GROUP

Daniel Golden, Greg Kauffmann¹, Ryan McKillip¹, Alan Schwartz², Jeanne Farnan¹, Yoon Soo Park², Radiation Oncology Education Collaborative Study Group³

Group³

¹University of Chicago, Chicago, IL

²University of Illinois at Chicago, Chicago, IL,

³Chicago, IL

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A NEW FRONTIER: THE USE OF VIRTUAL SIMULATION FOR RADIATION
THERAPY EDUCATION FOR BREAST CANCER PATIENTS.

Jenny Soo, Christina Parsons¹, Christine Rodgeron¹, Jenny Seow¹, Paris-Ann Ingledew²

¹British Columbia Cancer Agency, Vancouver, BC

²University of British Columbia, Surrey, BC

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PROSPECTIVE LONGITUDINAL ASSESSMENT OF QUALITY OF LIFE AND SYMPTOMS IN PATIENTS WITH OLIGOMETASTATIC CANCER TREATED WITH STEREOTACTIC BODY RADIATION THERAPY (SBRT): ANALYSIS OF A PHASE II TRIAL
Pablo Munoz-Schuffenegger, Tony Panzarella, Laura Dawson, Andrea Bezjak, Patricia Lindsay, Peter Chung, Andrew Hope, Meredith Giuliani, Anne Koch, Bernard Cummings, Zahra Kassam, Mojgan Taremi, Jolie Ringash, Rebecca Wong
University of Toronto, Toronto, ON
- 16
PATIENT-REPORTED SEXUAL HEALTH AFTER DEFINITIVE CHEMORADIOTHERAPY AND MR-GUIDED BRACHYTHERAPY FOR CERVIX CANCER
Jennifer Croke, Rachel Gerber, Kathy Han, Jason Xie, Haiyan Jan, Akbar Beiki-Ardakani, Anthony Fyles, Michael Milosevic
Princess Margaret Cancer Centre, Toronto, ON
- 17
TREATMENT PLANNING EVALUATION OF VOLUMETRIC MODULATED ARC THERAPY (VMAT) FOR CRANIOSPINAL IRRADIATION (CSI)
Salwa Fathy, Tagreed Alalawi, Nasser Al-Dhaibani
King Abdullah Medical City, Saudi Arabia, Jeddah, Saudi Arabia
- 18
AUTOMATED CONTOURING OF THE PROXIMAL BRONCHIAL TREE USING OPEN SOURCE TOOLS FOR SBRT TREATMENT OF THE LUNG
Niranjan Venugopal, Vijayananda Kundapur
University of Saskatchewan, Saskatoon, SK
- 19
ONLINE ADVERTISING AND MARKETING CLAIMS BY PROVIDERS OF PROTON BEAM THERAPY: ARE THEY GUIDELINE BASED?
Mark Corkum¹, Wei Liu¹, David Palma¹, Robert Dinniwell¹, Glenn Bauman¹, Andrew Warner², Mark Mishra³, Alexander Louie²
¹University of Western Ontario, London, ON
²London Health Sciences Centre, London, ON
³University of Maryland School of Medicine, Baltimore, MD
- 20
ASSESSING HAZARD OF TOBACCO-RELATED CANCERS AMONG INDIVIDUALS WITH PSYCHIATRIC DISORDERS IN BRITISH COLUMBIA
Mary McLay¹, Robert Olson¹, Russ Callaghan²
¹University of British Columbia, Vancouver, BC
²University of Northern British Columbia, Prince George, BC
- 21
POPULATION-BASED STANDARDIZED SYMPTOM SCREENING: CANCER CARE ONTARIO'S EXPANDED PROSTATE CANCER INDEX COMPOSITE FOR CLINICAL PRACTICE (EPIC-CP) PROVINCIAL IMPLEMENTATION APPROACH
1Lisa Barbera, Farzana Haji², Michael Brundage³, Colleen Bedford², Doris Howell⁴, Brett Nicholls²
¹Odette Cancer Centre, Toronto, ON
²Cancer Care Ontario, Toronto, ON
³Cancer Centre of Southeastern Ontario, Kingston, ON
⁴University Health Network, Toronto, ON

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RADIOTHERAPY FOR LUNG CANCER IN THE INTENSIVE CARE UNIT - A POPULATION BASED ANALYSIS

Alexander Louie¹, Lihua Li², Krista Bray Jenkyn¹, Britney Allen², Andrew Warner³, George Rodrigues², David Palma², Salimah Shariff²

¹London Regional Cancer Program, London, ON

²University of Western Ontario, London, ON

³London Health Sciences Centre, London, ON

Poster Discussion Session 2

Toronto II

Moderators:

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

- Discuss a variety of projects and research being conducted across the country in radiation oncology.

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PATTERNS OF RADIATION THERAPY TECHNOLOGY USE IN THE TREATMENT OF BONE METASTASES

Matthew Chan¹, Robert Olson², Shilo Lefresne², Michael McKenzie²

¹British Columbia Cancer Agency, Vancouver, BC

²University of British Columbia, Vancouver, BC

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MULTICENTER EVALUATION OF THE TOLERABILITY OF COMBINED TREATMENT WITH PD-1 AND CTLA-4 IMMUNE CHECKPOINT INHIBITORS AND PALLIATIVE RADIOTHERAPY

Andrew Bang, Tyler Wilhite², Luke Pike², Daniel Cagney², Ayal Aizer², Allison Taylor², Alexander Spektor², Monica Krishnan³, Patrick Ott², Tracy Balboni², Stephen Hodi², Jonathan Schoenfeld²

¹University of Ottawa, Ottawa, ON

²Harvard University, Boston, MA

³Brigham and Women's Hospital/Dana-Farber Cancer Institute, Boston, MA

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INFORMAL CAREGIVER QUALITY OF LIFE IN A PALLIATIVE ONCOLOGY POPULATION

Adele Duimering, Jill Turner, Karen Chu, Fleur Huang, Diane Severin, Sunita Ghosh, Don Yee, Ericka Wiebe, Nawaid Usmani, Zsolt Gabos, Samir Patel, Brita Danielson, John Amanie, Wilson Roa, Alysa Fairchild

Cross Cancer Institute, Edmonton, AB

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DOCUMENTATION OF DRIVING RECOMMENDATIONS FOR PATIENTS RECEIVING WHOLE BRAIN RADIOTHERAPY

Michael H. Wang, Melissa Hwang, Sunita Ghosh, Diane Severin, Tirath Nijjar, Zsolt Gabos, Karen P. Chu, Don Yee, Brock Debenham, Keith Tankel, Wilson Roa, Robert Pearcey, Kurian Joseph, Brita Danielson, Alysa Fairchild

Cross Cancer Institute, Edmonton, AB

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MYXOFIBROSARCOMA CHARACTERISTICS AND CLINICAL OUTCOMES AT A LARGE CANADIAN TERTIARY CANCER REFERRAL CENTRE

Gaurav Bhattacharya, Matthew Tsang, Horia Marginean, Samy El Sayed

The University of Ottawa, Ottawa, ON

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A SYSTEMATIC REVIEW OF CLINICAL OUTCOMES FOLLOWING CHEMO-RADIOTHERAPY FOR ANAL CANCER IN HIV-POSITIVE PATIENTS ON HIGHLY-ACTIVE ANTI-RETROVIRAL THERAPY (HAART)

Rohann Correa¹, Robert Dinniwel¹, Boris Virine¹, Adeel Kaiser², Mark Mishra², Alexander Louie³

¹University of Western Ontario, London, ON

²University of Maryland School of Medicine, Baltimore, MD

³London Health Sciences Centre, London, ON

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NEOADJUVANT SBRT FOR PANCREATIC DUCTAL ADENOCARCINOMA: A SYSTEMATIC REVIEW

Rahul Arora¹, Jan Grendar², Petra Grendarova¹, Zeljka Jutric³, Richie Sinha¹

¹University of Calgary, Calgary, AB

²Providence Portland Medical Center, Portland, OR

³City of Hope National Medical Center, Duarte, CA

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FACTORS AFFECTING POST-OPERATIVE CAVITY VOLUME AND SURFACE AREA DYNAMICS SPECIFIC TO BRAIN METASTASES

Yaser Hasan¹, Luluel Khan¹, Todd Mainprize¹, Sunit Das¹, Mark Ruschin¹, Fiona Lochray², Young Lee², May Tsao¹, Arjun Sahgal¹, Hany Soliman¹

¹University of Toronto, Toronto, ON

²Sunnybrook Health Sciences Centre, Toronto, ON

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OUTCOMES OF HYPOFRACTIONATED STEREOTACTIC RADIOETHERAPY FOR INTRACRANIAL MENINGIOMA: A SYSTEMATIC REVIEW OF THE LITERATURE

¹Timothy Nguyen, Eric Nguyen², Hanbo Chen¹, R. Gabe Boldt¹, Alexander Louie¹, Glenn Bauman¹

¹London Health Sciences Centre, London, ON

²Juravinski Cancer Centre, Hamilton, ON

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CHECKPOINT SLIPPAGE AFTER DNA DOUBLE STRAND BREAKS UNDERLIES ACTIVATION OF IR-INDUCED INFLAMMATORY SIGNALING

Shane Harding, Joseph Benci, Jerome Irianto, Dennis Discher, Andy Minn, Greenberg Roger

University of Pennsylvania, Philadelphia, PA

3:45-4:00

Break

4:00-5:00

Fellow Competition

Toronto I/II

Moderators:

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

- Review Canadian Radiation Oncology Fellow Research Projects.

33 ELEKTA FELLOWSHIP

DOSIMETRIC IMPACT OF RE-PLANNING DURING A COURSE OF CURATIVE INTENT HEAD AND NECK RADIATION TREATMENT

Theodora A. Koulis¹, Quinn Matthews¹, Nick Chng¹, Bronwen Engel¹, Boris Valev¹, Robert Olson²

¹British Columbia Cancer Agency, Prince George, BC

²University of British Columbia, Vancouver, BC

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PLERIXAFOR IMPROVES PRIMARY TUMOUR RESPONSE AND REDUCES
NODAL METASTASIS IN CERVICAL CANCER TREATED WITH RADIO-
CHEMOTHERAPY
Magali Lecavalier-Barsoum¹, Naz Chaudary², Pratibha Tapa², Meegan Larsen³,
Melania Pintilie¹, Ri Wang¹, Kathy Han¹, Laura Caporiccio² Richard Hill¹,
Michael Milosevic¹
¹Princess Margaret Cancer Centre, Toronto, ON
²Ontario Cancer Institute and Campbell Family Institute for Cancer Research,
Toronto, ON
³Mbed Pathology, Toronto, ON

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PATTERNS OF IPSILATERAL REGIONAL NODAL RELAPSE IN BREAST
CANCER: A REVIEW OF THE RTOG BREAST CANCER ATLAS
Laura Beaton¹, Luminita Nica², Gareth Ayre², Kenny Sek², Maria Aparicio²,
Lovedeep Gondara², Caroline Speers², Scott Tyldesley², Alan Nichol²
¹British Columbia Cancer Agency, Vancouver, BC
²University of British Columbia, Vancouver, BC

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LONG TERM QUALITY OF LIFE AND LATE TOXICITY ASSESSMENT
FOLLOWING IMAGE-GUIDED INTENSITY-MODULATED RADIATION
THERAPY AND CONCURRENT CHEMOTHERAPY FOR ANAL CANCER
Ali Hosni, Kathy Han, Haiyan Jiang, Jolie Ringash, James Brierley, Rebecca
Wong¹, Robert Dinniwel², Anthony Brade³, Laura Dawson, Bernard Cummings,
Monika Krzyzanowska, Eric Chen, David Hedley, Jennifer Knox, Alexandra
Easson, Patricia Lindsay, Tim Craig, John Kim
¹Princess Margaret Cancer Centre, Toronto, ON
²University of Western Ontario, London, ON
³Credit Valley Hospital, Mississauga, ON

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RISK-ADAPTED LUNG SBRT FOR CENTRAL AND ULTRA-CENTRAL
TUMOURS
Alexis Lenglet, Dominique Mathieu, Marie-Pierre Campeau, Houda Bahig, Toni
Vu, David Roberge, Laurent Bilodeau, Edith Filion
Université de Montréal, Montréal, QC

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PARTIAL BREAST RADIOTHERAPY WITH PD-103 PERMANENT BREAST
SEED IMPLANT: APPLICABILITY AND PATIENT ACCEPTANCE
Martin Korzeniowski, Laurie Pilote, Deidre Batchelar, Michelle Hilts, Marie-Pierre
Milette, Janet Yanchuk, Eleanor Garcia, Juanita Mary Crook
British Columbia Cancer Agency, Kelowna, BC

5:15-6:15 Annual General Meeting (Members only)
Toronto I/II

6:15-8:15 Poster Viewing and Welcome Reception
Convention Level Foyer

Friday September 15, 2017

7:30-8:30 Industry Symposium

7:30-8:30 Registration and Breakfast
Convention Level

8:30-8:45 Welcome and Introductions
Toronto I/II
Fabio Cury

8:45-9:45 Gordon Richards Lecture
Moderator: Padraig Warde

Advocating for Quality...
Michael Brundage

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

- Reflect on advocacy for quality in a number of dimensions, both past and present.
- Discuss links between the CanMEDS educational roles framework and advocacy for quality of care in radiation oncology.

9:45-10:45 Resident Competition
Moderator: Claire Snyder

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

- Review Canadian Radiation Oncology Resident Research Projects.

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PREDICTING THE FAILURE OF RANDOMIZED CONTROLLED TRIALS IN RADIATION ONCOLOGY: WHAT CAN WE LEARN?

Timothy Nguyen¹, Eric Nguyen², Andrew Warner¹, Alexander Louie¹, David Palma¹

¹London Health Sciences Centre, London, ON

²Juravinski Cancer Centre, Hamilton, ON

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STEREOTACTIC ABLATIVE RADIOTHERAPY VERSUS SURGERY IN EARLY LUNG CANCER: A META-ANALYSIS OF PROPENSITY SCORE-ADJUSTED COMPARATIVE EFFECTIVENESS STUDIES

Hanbo Chen¹, Joanna Laba², R. Gabriel Boldt², Christopher Goodman¹, David Palma², Suresh Senan³, Alexander Louie²

¹University of Western Ontario, London, ON

²London Health Sciences Centre, London, ON

³VU University Medical Center, Amsterdam, North Holland, Netherlands

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IMPROVED DISEASE CONTROL WITH ADJUVANT THERAPY FOR STAGE IA
SEROUS AND CLEAR CELL UTERINE CANCER: A POOLED MULTI-
INSTITUTIONAL ANALYSIS

Xuanlu Qu¹, Vikram Velker², Eric Leung³, Janice Kwon⁴, Mohamed Elshaikh⁵,
Iwa Kong⁶, Natalie Logie⁷, Lucas Castro Mendez³, Louis van der Putten⁴,
Elysia Donovan⁶, Adnan Munkarah⁸, Ericka Wiebe⁷, Alexander Louie⁹, David
D'Souza⁴

¹Queen's University, Kingston, ON

²University of Western Ontario, London, ON

³University of Toronto, Toronto, ON

⁴University of British Columbia, Vancouver, BC

⁵Henry Ford Hospital, Detroit, MI

⁶McMaster University, Hamilton, ON

⁷University of Alberta, Edmonton, AB

⁸Gynecology/Oncology, Detroit, MI

⁹London Health Sciences Centre, London, ON

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CBCT DERIVED RADIOSENSITIVITY MARKER ASSOCIATED WITH
RADIATION PNEUMONITIS

Pencilla Lang¹, Douglas Moseley², Uffe Bernchou³, Carsten Brink³, Andrew
Hope¹

¹University of Toronto, Toronto, ON

²Princess Margaret Cancer Centre, Toronto, ON

³Odense University Hospital, Odense, Denmark

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STEREOTACTIC BODY RADIOTHERAPY FOR OLIGOMETASTATIC AND
OLIGOPROGRESSIVE DISEASE

Catherine Pembroke, Neil Kopek

McGill University, Montreal, QC

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VALIDATION OF THE TEACHH SCORE FOR PREDICTION OF LIFE
EXPECTANCY IN PATIENTS WITH METASTASIS TO THE SPINE

Maryam Dosani¹, Sarah Hamilton¹, Tim Kong², Sarah Lucas¹, Jordan Wong¹,
Mitchell Liu¹, Scott Tyldesley¹

¹British Columbia Cancer Agency, Vancouver, BC

²University of British Columbia, Vancouver, BC

10:45-11:30 Break/Exhibitor Showcase

11:30-12:30 Oral Session 3 – Lung Cancer
Toronto I
Moderators:

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

- Understand modern approaches in the treatment of lung cancer using SBRT.
- Discuss risk stratification, quality of life, and current practice of treatment of lung cancer.

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METABOLIC TUMOUR VOLUME IS PROGNOSTIC OF OUTCOMES IN
PATIENTS WITH NON-SMALL CELL LUNG CANCER TREATED WITH
STEREOTACTIC ABLATIVE RADIOTHERAPY

Maryam Dosani¹, Rob Olson¹, Ruobing Yang¹, Don Wilson¹, Mitchell Liu¹,
Charlotte J. Yong-Hing¹, Jeremy Hamm¹, Chad R. Lund², Devin Schellenberg²

1British Columbia Cancer Agency, Vancouver, BC

2British Columbia Cancer Agency, Surrey, BC

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CENTRAL3D: A CLINICIAN TOOL FOR ROBUST CHARACTERIZATION OF CENTRALLY LOCATED NON-SMALL CELL LUNG CANCER

Dominique Mathieu, Vincent Cousineau Daoust, Laurent Bilodeau, Stéphane Bedwani, Édith Fillion, Alexis Lenglet, Houda Bahig, David Roberge, Marie-Pierre Campeau

Université de Montréal, Montréal, QC, Canada

Centre hospitalier de l'Université de Montréal, Montréal, QC

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FUNCTIONAL LUNG AVOIDANCE FOR INDIVIDUALIZED RADIOTHERAPY (FLAIR): RESULTS OF A RANDOMIZED, DOUBLE-BLIND CLINICAL TRIAL

Brian Yaremko¹, Douglas Hoover¹, Dante Capaldi¹, Khadija Sheikh¹, A. Rashid Dar¹, Edward Yu¹, Alexander Louie², George Rodrigues¹, Stewart Gaede¹, Jeff Chen¹, Abigail Erickson², Andrew Warner², Brian Dingle¹, Mark Landis¹, Mark Vincent¹, Michael Sanatani¹, Jawaid Younus¹, M Sara Kuruvilla¹, David Palma¹, Grace Parraga¹

¹University of Western Ontario, London, ON

²London Health Sciences Centre, London, ON

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IS STEREOTACTIC ABLATIVE RADIOTHERAPY (SABR) SAFE FOR THE TREATMENT OF ULTRA-CENTRAL LUNG TUMOURS? A SYSTEMATIC REVIEW

1Joanna Laba, Hanbo Chen¹, R. Gabriel Boldt², David Palma¹, Alexander Louie²

¹University of Western Ontario, London, ON

²London Health Sciences Centre, London, ON

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CONDITIONAL SURVIVAL PROBABILITIES FOLLOWING SABR IN EARLY-STAGE NON-SMALL CELL LUNG CANCER

Alexander Louie¹, Mark Mishra², Frank Lagerwaard³, Cornelis Haasbeek³, Ben Slotman³, Suresh Senan³

¹London Regional Cancer Program, London, ON

²University of Maryland School of Medicine, Baltimore, MD

³VU University Medical Center, Amsterdam, Netherlands

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DEFINING THE NEED FOR PALLIATIVE LUNG CANCER RADIOTHERAPY IN THE GENERAL POPULATION: A CRITERION-BASED BENCHMARKING APPROACH

Chunzi Jenny Jin, Weidong Kong, William Mackillop
Queen's University, Kingston, ON

Oral Session 4 – Genitourinary Cancer, Radiation Treatment Delivery
Toronto II

Moderators:

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

- Understand predicting factors, toxicities and outcomes of prostate cancer treatment with radiation therapy.
- Understand important concepts involved in treatment planning and delivery of modern radiation therapy.

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MRI VALIDATION OF POST- PROSTATECTOMY RADIOTHERAPY
CONTOURING GUIDELINES
Mo Manji, Juanita Crook, Leigh Bartha, Rasika Rajapakshe
British Columbia Cancer Agency, Kelowna, BC

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RADIATION THERAPY FOLLOWING ACTIVE SURVEILLANCE FOR LOW-
AND INTERMEDIATE- RISK LOCALIZED PROSTATE CANCER
Ali Hosni, Ardalan Ahmad, Melvin Chua, Jure Murgic, Hamid Raziee, Fabio
Moraes, Narhari Timilshina, Andrew Bayley, Peter Chung, Robert Bristow,
Antonio Finelli, Alejandro Berlin
Princess Margaret Cancer Centre, Toronto, ON

53
RANDOMIZED STUDY OF QUALITY OF LIFE IN PATIENTS WITH HIGH-RISK
PROSTATE CANCER UNDERGOING RADIOTHERAPY: ROLE OF PELVIC
NODAL IMRT
Julie Arsenault, Sameer Parpia, Himanshu Lukka, Thomas B. Corbett, Maltibehn
Patel, Theodorus Tsakiridis, Ian Dayes
McMaster University, Hamilton, ON

54
A SET OF QUALITY ASSURANCE TESTS FOR 3D PRINTED BOLUS USED IN
RADIOTHERAPY
Philip McGeachy¹, David Sasaki², Chad Harris¹, Ankur Sharma¹, Arbind
Dubey²
¹CancerCare Manitoba, Winnipeg, MB
²University of Manitoba, Winnipeg, MB

55
FACTORS ASSOCIATED WITH IN-FIELD RECURRENCE IN PATIENTS
TREATED WITH LIVER SBRT
Emily Hubley¹, Sarah Quirk¹, Richie Sinha¹, Shaun Loewen¹, Petra
Grendarova²
¹University of Calgary, Calgary, AB
²Tom Baker Cancer Centre, University of Calgary, Calgary, AB

56
PROGRESSIVE HYPO FRACTIONATED IGRT REGIMENS: TOXICITY,
ACCEPTABILITY AND EFFICIENCY OF DELIVERY COMPARED TO A
STANDARD FRACTIONATION REGIMEN, BOTH WITH HDR
BRACHYTHERAPY BOOST
André-Guy Martin¹, Khaly Mbodji¹, William Foster¹, Éric Vigneault¹, Philippe
Després², Marie-Claude Lavallée¹, Frederic Lacroix¹, Nadia Octave¹
¹Centre Hospitalier Universitaire de Québec - L'Hôtel-Dieu de Québec, Québec,
QC
²Centre de Recherche du Centre Centre Hospitalier Universitaire de Québec,
Québec QC

12:30-2:30

Lunch

Industry Symposium

Committee Meetings

2:30-3:30

Canadian Brachytherapy Group Oral Session

Toronto I

Moderator: Marc Gaudet, Gerard Morton

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

- Recognize the most recent advances on brachytherapy research for prostate and cervical cancer.
- Discuss the results of a phase III trial on brachytherapy for lung cancer.

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TOXICITY AND HEALTH-RELATED QUALITY OF LIFE RESULTS OF 2-FRACTION HDR BRACHYTHERAPY AS MONOTHERAPY FOR LOW AND INTERMEDIATE RISK PROSTATE CANCER.

Marc Gaudet¹, Mathieu Pharand-Charbonneau², Debbie Wright², Marie-Pierre Desrosiers², Alain Haddad³

¹The Ottawa Hospital, Ottawa, ON

²CISSS de l'Outaouais, Gatineau, QC

³University of Ottawa, Ottawa, ON

58

US-PLANNED HDR PROSTATE BRACHYTHERAPY BOOST: ACUTE AND LATE TOXICITY

Laurie Pilote¹, Juanita Crook¹, Miren Gaztañaga², Ana Ots³, Jasbir Jaswal⁴, Jim Rose⁵, Audrey Tetreault Laflamme⁶, Cynthia Araujo¹, Batchelar Deidre¹, Marie-Pierre Millette¹, Schmid Matthew¹, Martin Korzeniowski¹, Francois Bachand¹

¹British Columbia Cancer Agency, Kelowna, BC

²Departamento Oncología Radioterapia, Madrid, Spain

³United Lincolnshire Hospitals, Lincoln, United Kingdom

⁴British Columbia Cancer Agency, Fraser Valley, BC

⁵British Columbia Cancer Agency, Abbotsford, BC

⁶Centre hospitalier universitaire de Sherbrooke, Sherbrooke, QC

59

ELECTROMAGNETIC RECONSTRUCTION OF CATHETER PATHS IN MULTI-CATHETER INTERSTITIAL BRACHYTHERAPY: A PHANTOM MODEL

Harry C. Brastianos¹, Thomas Vaughan¹, Andras Lasso¹, Tamas Ungi¹, Mary Westerland², James Gooding¹, Gabor Fichtinger¹, Conrad Falkson¹

¹Queen's University, Kingston, ON

²Kingston General Hospital, Kingston, ON

60

A PHASE III, MULTI-CENTRE, RANDOMIZED TRIAL TO EVALUATE THE SYMPTOMATIC AND QUALITY OF LIFE IMPROVEMENTS IN LUNG CANCER PATIENTS RECEIVING EXTERNAL BEAM RADIATION WITH OR WITHOUT HIGH DOSE RATE INTRALUMINAL BRACHYTHERAPY

Ranjan Sur¹, Conrad Falkson², Ming Pan³, Greg Pond¹, Jim Wright⁴, Andrea Bezjak⁵, Anne Dagnault⁶, Robert Hunter⁴, Edward Yu⁵, Maha Almahmudi⁶, Sundeep Shahi⁷, Serhij Puksa¹, Daren Gopaul⁷, Theodoros Tsakiridis¹, Anand Swaminath¹, Peter Ellis¹, Kathryn Kline¹, Catherine Bucci⁴, Sheikh Nisar Ahmed⁶, Timothy Whelan¹

¹McMaster University, Hamilton, ON

²Queens University, Kingston, ON

³Windsor Regional Cancer Centre, Windsor, ON

⁴Juravinski Cancer Centre, Hamilton, ON

⁵Princess Margaret Cancer Centre, Toronto, ON

⁶Hotel-Dieu de Québec, CHUQ, Quebec City, QC

⁷University of Western Ontario, London Regional Cancer Centre, London, ON

6British Columbia Cancer Agency, Abbotsford, BC
7Grand River Regional Cancer Centre, Kitchener, ON

61

THE CURRENT LANDSCAPE OF QUALITY ASSURANCE PRACTICES FOR
CERVIX BRACHYTHERAPY IN CANADA

Jocelyn Moore¹, Peter Lim¹, Jennifer Croke², Corinne Doll³, Fleur Huang⁴, Teri
Stuckless⁵, Maroie Barkati⁶, Christina Parsons¹

¹British Columbia Cancer Agency, Vancouver, BC

²Princess Margaret Cancer Centre, Toronto, ON

³Tom Baker Cancer Centre, Calgary, AB

⁴Cross Cancer Institute, Edmonton, AB

⁵Dr. H Bliss Murphy Cancer Center, St. John's, NL

⁶Centre hospitalier de l'Université de Montréal, Montreal, QC

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A COST-UTILITY ANALYSIS COMPARING MR-GUIDED BRACHYTHERAPY
TO 2D BRACHYTHERAPY FOR MANAGEMENT OF LOCALLY ADVANCED
CERVICAL CANCER IN ONTARIO, CANADA

Julia Skliarenko¹, Johnna Perdrizet², Michelle Ang³, Lisa Barbera⁴, Eric
Gutierrez³, Ananth Ravi⁴, Kari Tanderup⁵, Padraig Warde³, David D'Souza⁶,
Kelvin Chan⁷, Wanrudee Isaranuwachai², Michael Milosevic⁴

¹Simcoe Muskoka Regional Cancer Program, Barrie, ON

²St Michael's Hospital, Toronto, ON

³Cancer Care Ontario, Toronto, ON

⁴University of Toronto, Toronto, ON

⁵Aarhus University Hospital, Aarhus, Denmark

⁶London Health Sciences Centre, London, ON

⁷Odette Cancer Centre, Toronto, ON

3:30-4:30

Oral Session 5 – Radiation Treatment, Radiosurgery

Toronto I

Moderators:

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

- Discuss important factors related to quality of treatment planning and delivery.
- Understand the most recent advances in radiosurgery and its impact on treatment outcomes.

63

SURVIVAL IMPACT OF CARDIAC DOSE IN LUNG STEREOTACTIC BODY
RADIOTHERAPY

Olive Wong¹, Vivian Yau¹, Julie Kang¹, Daniel Glick², Patricia Lindsay³, Lisa
Le¹, Alexander Sun³, Andrea Bezjak³, John Cho³, Andrew Hope³, Meredith
Giuliani³

¹Princess Margaret Cancer Centre, Toronto, ON

²British Columbia Cancer Agency, Vancouver, BC

³University of Toronto, Toronto, ON

64

ASSESSMENT OF DOSIMETRIC PREDICTORS AND IMPACT OF WHOLE-BRAIN RADIOTHERAPY ON THE INCIDENCE OF RADIONECROSIS AFTER STEREOTACTIC RADIOSURGERY FOR BRAIN METASTASIS

Hamid Raziee¹, Fabio Y Moraes², Young-Bin Cho², Manjula Magnati², David Shultz², Barbara-Ann Millar², Normand Laperriere¹, Caroline Chung³, Alejandro Berlin²

¹University of Toronto, Toronto, ON

²Princess Margaret Cancer Centre, Toronto, ON

³MD Anderson Cancer Center, University of Texas, Houston, TX

65

EXTREME HYPOFRACTIONATION FOR HIGH RISK PROSTATE CANCER: DOSIMETRIC CORRELATIONS WITH RECTAL BLEEDING

Glenn Bauman¹, Jeff Chen², George Rodrigues², Kristina Commisso³, Alexandre Mamedov⁴, Hima Musunuru⁵, Melanie Davidson⁴, Tristan Mills¹, Andrew Warner², Andrew Loblaw⁴

¹London Regional Cancer Program, London, ON

²University of Western Ontario, London, ON

³Sunnybrook Odette Cancer Centre, Toronto, ON

⁴University of Toronto, Toronto, ON

⁵University of Wisconsin School of Medicine and Public Health, Madison, WI

66

OUTCOMES FOR IMAGE-GUIDED FRAMELESS LINEAR ACCELERATOR-BASED HYPOFRACTIONATED STEREOTACTIC RADIOTHERAPY IN FIVE DAILY FRACTIONS TO THE SURGICAL CAVITY AFTER RESECTION OF BRAIN METASTASES

Hany Soliman¹, Sten Myrehaug¹, May Tsao¹, Chia-Lin Tseng¹, Ahmed Hashmi², Mark Ruschin¹, Young Lee¹, Arjun Sahgal¹

¹Odette Cancer Centre, University of Toronto, Toronto, ON

²Clatterbridge Cancer Centre, Merseyside, UK

67

POST-SURGICAL CLIPS AS FIDUCIALS FOR TREATMENT OF STEREOTACTIC BODY RADIOTHERAPY OF THE LIVER

Muhammad Faisal Jamaluddin, Kurian Joseph, Diane Severin, Joel St. Aubin, Adele Duimerring, Shannah Murland, Zsolt Gabos, Keith Tankel
University of Alberta, Edmonton, AB, Canada

68

ESOPHAGEAL TOXICITY IN THORACIC STEREOTACTIC RADIOTHERAPY

Vivian Yau¹, Patricia Lindsay¹, Andrew Hope¹, Lisa Le¹, Daniel Glick², Anthea Lau¹, John Cho², Andrea Bezjak¹, Alex Sun², Meredith Giuliani²

¹Princess Margaret Cancer Centre, Toronto, ON

²British Columbia Cancer Agency, Victoria, BC

Oral Session 6 – Gynecologic Cancer

Toronto II

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

- Discuss treatment planning, quality of life, and outcomes of radiotherapy for gynecological tumours.
- Review possible factors that can be associated with treatment outcomes in the management of gynecologic malignancies.

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PRECLINICAL ASSESSMENT OF ACUTE AND LATE GASTROINTESTINAL TOXICITY WITH THE ADDITION OF PLERIXAFOR TO RADIO-CHEMOTHERAPY FOR CERVICAL CANCER

Naz Chaudary¹, Magali Lecavalier-Barsoum¹, Pratibha Thapa¹, Meegan Larsen², Melania Pintilie¹, Kathy Han¹, Richard Hill¹, Michael Milosevic¹
¹Princess Margaret Cancer Centre, Toronto, ON
²Mbed Pathology, Toronto, ON

70

VALIDATION OF PATIENT REPORTED OUTCOME MEASURES IN PATIENTS RECEIVING HIGH DOSE PELVIC RADIATION THERAPY FOR GYNECOLOGIC MALIGNANCIES

Matthew Chan¹, Vincent Lapointe¹, Robert Olson², Caroline Holloway³, Francois Bachand⁴, Peter Lim¹, Christina Parsons¹
¹British Columbia Cancer Agency, Vancouver, BC
²University of British Columbia, Vancouver, BC
³British Columbia Cancer Agency, Vancouver Island, BC
⁴British Columbia Cancer Agency, Kelowna, BC

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ADJUVANT CHEMO-RADIATION FOR CLEAR CELL CARCINOMA OF THE OVARY: A POPULATION BASED STUDY OF PELVIC VERSUS WHOLE ABDOMINAL RADIATION THERAPY

Soumyajit Roy¹, Anna Tinker², Paul Hoskins², Francois Bachand³, Caroline Holloway⁴, Christina Parsons², Peter Lim², Gaurav Bahl¹
¹British Columbia Cancer Agency, Abbotsford, BC
²British Columbia Cancer Agency, Vancouver, BC
³British Columbia Cancer Agency, Kelowna, BC
⁴British Columbia Cancer Agency, Vancouver Island, BC

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CONTOURING AND TARGET VARIABILITY IN VAGINAL TUMOURS TREATED WITH MR-BASED INTERSTITIAL BRACHYTHERAPY: A MULTI-CENTRE CANADIAN CONTOURING STUDY

Eric Leung¹, David D'Souza², Joanne Alfieri³, Robyn Banerjee⁴, Francois Bachand⁵, Lisa Barbera⁶, Maroie Barkati⁷, Toni Barnes⁶, David Bowes⁸, Israel Fortin⁷, William Foster⁹, Kathy Han¹⁰, Fleur Huang¹¹, Nikhilesh Patil⁸, Vikram Velker², Eric Vigneault⁹, Ericka Wiebe¹¹, Matt Wronski⁶, Ananth Ravi⁶
¹University of Toronto, Toronto, ON
²London Health Sciences Centre, London, ON
³McGill University Health Centre, Montreal, QC
⁴Tom Baker Cancer Centre, Calgary, AB
⁵British Columbia Cancer Agency, Kelowna, BC
⁶Sunnybrook Health Sciences Centre, Toronto, ON
⁷CHUM - Hôpital Notre-Dame, Montreal, QC
⁸Nova Scotia Cancer Centre, Halifax, NS
⁹Centre Hospitalier Universitaire de Quebec, Quebec, QC
¹⁰Princess Margaret Cancer Centre, Toronto, ON
¹¹Cross Cancer Institute, Edmonton, AB

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PIK3CA MUTATIONAL STATUS AND POST CHEMORADIOTHERAPY 18F-FDG-PET IMAGING RESPONSE IN PATIENTS WITH CERVICAL CANCER

Kevin Martell, John McIntyre, Elizabeth Kornaga, Angela Chan, Tien Phan, Martin Koebel, Prafull Ghatage, Susan Lees-Miller, Corinne Doll
University of Calgary, Calgary, AB

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3D IMAGE GUIDED INTERSTITIAL BRACHYTHERAPY FOR PRIMARY VAGINAL CANCER

Chris Goodman¹, Vikram Velker¹, Eric Leung², Alexander V Louie¹, George Hajdok¹, Nikhilesh Patil³, Ericka Wiebe⁴, David D'Souza¹

¹University of Western Ontario, London, ON

²University of Toronto, Toronto, ON

³Dalhousie University, Halifax, NS

⁴University of Alberta, Edmonton, AB

4:30-6:00

Workshop 1

Tom Thomson

Quality Assurance in Palliative Radiation Therapy and Symptom Control

Kristopher Dennis

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

- Appreciate the need for, and the complexity of providing quality assurance for non-stereotactic palliative radiation therapy and symptom control.
- Understand the current state of peer review practices in Canada for non-stereotactic palliative radiation therapy.
- Be aware of best practice resources for non-stereotactic palliative radiation therapy and symptom control.
- Be aware of potential future metrics for measuring quality within this environment.

Workshop 2

Jackson

Why Wouldn't Ya? A Win/Win Strategy Using Advanced Practice Radiation Therapists

Nicole Harnett, Robert Dinniwell, Pdraig Warde, Grace Lee

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

- Describe what an Advanced Practice Radiation Therapist (CSRT) is and provide examples of the work that CSRTs are currently doing in Ontario.
- Discuss the pressures currently facing the radiation medicine domain and how CSRTs could play a role in alleviating these pressures.
- Identify opportunities to permanently integrate CSRTs into the radiation medicine team.

Workshop 3

Toronto II

Pan-Canadian PRO Collection: Working Together to Advance Patient Care

Robert Olson, Lisa Barbera, Amanda Caissie, Michael Milosevic, Erika Brown

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

- Learn about what patient reported outcomes are and how they can help improve clinical care, symptom control and patient outcomes.
- Learn about the British Columbia Cancer Agency's Prospective Outcomes and Support Initiative (POSI) and Cancer Care Ontario's Patient Reported Outcome Program.
- Discuss how standardizing PRO collection models in specific disease sites can advance quality of care in patient populations across the country and how the Canadian Partnership for Quality Radiotherapy is helping facilitate and drive pan-Canadian alignment.
- Learn ways to increase the utility of PRO within practice.

7:30

Dinner and Awards Ceremony – The Red Carpet Affair
Grand Banking Hall, One King West

Saturday September 16, 2017

7:15-8:15 Pamela Catton Memorial Fun RUN/Walk

8:30-9:30 Breakfast Industry Symposium

Committee Meetings

8:30-9:30 Registration and Breakfast

9:30-10:30 Jean Roy Lecture

Moderator:

Toronto I

Brachytherapy Education in an Era of High Technology
Gerard Morton

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

- Identify limitations of current training in brachytherapy.
- Describe how Royal College Area of Focused Competency (AFC) Diploma programs might address these needs.

10:30-11:30 Oral Session 7 – Head and Neck Cancer

Toronto I

Moderators:

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

- Describe important factors associated with the improvement of treatment outcomes for patients with head and neck malignancies.
- Review possible methods to decrease toxicity during radiation therapy for head and neck cancers.

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STEREOTACTIC BODY RADIOTHERAPY (SBRT) PROVIDES AN EXCELLENT LOCAL CONTROL WITH ACCEPTABLE TOXICITIES IN MEDICALLY UNFIT HEAD AND NECK CANCER PATIENTS

Hossam AL-Assaf, Ian Poon, Justin Lee, Irene Karam, Kevin Higgins, Danny Enepekides

University of Toronto, Toronto, ON

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EARLY (90-DAY) MORTALITY AFTER RADICAL RADIOTHERAPY FOR HEAD & NECK SQUAMOUS CELL CARCINOMA: A POPULATION-BASED ANALYSIS

Sarah Hamilton¹, Eric Tran¹, Eric Berthelet¹, Jonn Wu¹, Robert Olson²

¹British Columbia Cancer Agency, Vancouver, BC

²University of British Columbia, Vancouver, BC

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DISTANT METASTASES RISK-GROUP DEFINITION OF ORAL SQUAMOUS CELL CARCINOMA PATIENTS TREATED WITH POSTOPERATIVE INTENSITY MODULATED RADIOTHERAPY

Ali Hosni, Kevin Chiu, Shao Hui Huang, Wei Xu, Jie Su, Li Tong, Andrew Bayley, Scott Bratman, John Cho, Meredith Giuliani, John Kim, Jolie Ringash, John Waldron, John de Almeida, Douglas Chepeha, David Goldstein, Brian O'Sullivan, Andrew Hope

Princess Margaret Cancer Centre, Toronto, ON

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A RADIOMIC PROGNOSTIC INDEX REFINES RISK MODELS FOR DISTANT METASTASIS IN HPV-RELATED OROPHARYNGEAL CANCER

Jennifer Kwan¹, Jie Su², Shao Hui Huang¹, Wei Xu², Kenneth Yip³, Meredith Giuliani¹, Andrew Bayley¹, John Kim¹, Andrew Hope³, Jolie Ringash¹, John Cho¹, Andrea McNiven¹, Aaron Hansen¹, David Goldstein¹, Hugo Aerts⁴, John Waldron¹, Benjamin Haibe-Kains¹, Brian O'Sullivan¹, Scott Bratman¹, Fei-Fei Liu¹

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²University Health Network, Toronto, ON

³Princess Margaret Cancer Centre, Toronto, ON

⁴Dana-Farber Cancer Institute, Boston, MA

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EVALUATION OF DIFFERENCES BETWEEN ESTIMATED DELIVERED DOSE AND PLANNED DOSE IN NASOPHARYNX PATIENTS USING DEFORMABLE IMAGE REGISTRATION AND DOSE ACCUMULATION

Olive Wong¹, Andrea McNiven², Biu Chan¹, Joanne Moseley¹, Jenny Lee¹, Lisa Le¹, Cijian Ren¹, John Waldron², Jean-Pierre Bissonnette², Meredith Giuliani², Beibei Zhang²

¹Princess Margaret Cancer Centre, Toronto, ON

²University of Toronto, Toronto, ON

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TREATMENT OUTCOMES IN OROPHARYNX CANCER PATIENTS WHO RECEIVED LESS THAN THE PLANNED CURATIVE RADIOTHERAPY DOSE

Fatimah Alfaraj¹, Shao Hui Huang¹, Brian O'Sullivan¹, Jie Su¹, Andrew Bayley¹, Scott Bratman¹, John Cho¹, Meredith Giuliani¹, John Kim¹, Jolie Ringash¹, John Waldron¹, Aaron Hansen¹, Ana Spreafico¹, John de Almeida¹, Bayardo Perez-Ordóñez², Ilan Weinreb², Li Tong², Wei Xu³, Andrew Hope³

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²University Health Network, Toronto, ON

³Princess Margaret Cancer Centre, Toronto, ON

Oral Session 8 – CNS, Experimental Therapeutics

Toronto II

Moderators :

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

- Review important aspects associated with treatment delivery and outcomes of patients undergoing treatment for CNS tumours.
- Describe relevant biomarkers for effectiveness and toxicity of cancer therapy.

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CLINICAL OUTCOMES OF 24 GY IN 2 DAILY FRACTIONS FOR PATIENTS WITH DE NOVO SPINAL METASTASES TREATED WITH SPINE STEREOTACTIC BODY RADIOTHERAPY (SBRT)

Chia-Lin Tseng, Mikki Campbell, Hany Soliman, Sten Myrehaug, Mark Ruschin, Young Lee, Eshetu Atenafu, Arjun Sahgal, University of Toronto, Toronto, ON

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PROGNOSTIC FACTORS IN ATYPICAL MENINGIOMA

Luis Souhami, Shakir Shakir, Kevin Petrecca, Jose Joao Mansure, George Shenouda, Valerie Panet-Raymond, Bassam Abdulkarim, Marie Christine Guiot McGill University Health Centre, Montréal, QC

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CANADIAN PATTERNS OF PRACTICE FOR INTRACRANIAL GERM CELL TUMOURS IN ADOLESCENTS AND YOUNG ADULTS

Andrea Lo¹, Normand Laperriere¹, David Hodgson¹, Eric Bouffet¹, James Nicholson², Michael McKenzie³, Juliette Hukin³, Karen Goddard³

¹University of Toronto, Toronto, ON

²Cambridge University, Cambridge, United Kingdom

³University of British Columbia, Vancouver, BC

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IMPROVING RADIATION RESPONSE IN HORMONE SENSITIVE AND RESISTANT PROSTATE CANCER WITH COMBINED METFORMIN AND SALICYLATE TREATMENT - MODULATION OF THE AMPK PATHWAY AND LIPOGENESIS

Lindsay A. Broadfield¹, Katarina Marcinko¹, Carrie Gerdes², Danitra Maharaj², Thomas Farrell², Gregory R. Steinberg¹, Theodoros Tsakiridis²

¹McMaster University, Hamilton, ON

²Juravinski Cancer Centre, Hamilton, ON

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PLASMA HPV DNA AS A BIOMARKER OF RESPONSE IN PATIENTS WITH LOCALLY ADVANCED CERVICAL CANCER TREATED WITH DEFINITIVE CHEMORADIATION

Eric Leung, Scott Bratman, Kathy Han

University of Toronto, Toronto, ON

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DATA-MINING TCGA PATHOLOGY REPORTS FOR PAN-CANCER GENOTYPE-HISTOLOGIC PHENOTYPE RELATIONSHIPS THAT INFORM PROGNOSIS

Jonathan So¹, Stanley Liu²

¹University of Toronto, Toronto, ON

²Odette Cancer Centre, Toronto, ON

11:30-12:15

Lunch

12:15-1:45

Workshop 4

Tom Thomson

Chest Tumours: Challenges in Practice

Patricia Tai, Conrad Falkson, Arjun Sahgal, Meredith Giuliani

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

- Be competent on the application of various radiation treatment techniques, with respect to target volume definition and doses for different tumors in the chest, including mesothelioma and thymoma.
- Be familiar with re-irradiation treatment planning, and tolerance doses.
- Be aware of challenges in post-treatment imaging.

Workshop 5
Governor General
Stereotactic Body Radiation Therapy (SBRT) for Spinal Metastases
Majed Alghamdi, Arjun Sahgal, Young Lee, Laura Masucci

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

- Understand the indications, outcomes and toxicities of Spine SBRT.
- Know the surgical innovations in combination with SBRT.
- Describe target volumes, prescription dose and constraints for OARs.
- Evaluate SBRT plan.
- Know the QA process for spine SBRT.
- Understand SC24- Canadian Randomized Trial (20Gy /5 vs SBRT 24 Gy/2).

Workshop 6
Toronto III
Building a Community of Practice through CARO to Promote Quality
Radiotherapy
Amanda Caissie, Michael Brundage, Brian Liszewski, Christina Parsons, Gunita Mitera

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

- Understand what quality and best practice means for radiotherapy (RT).
- Discuss examples of key quality improvement initiatives currently underway across Canadian RT centres and promoted through national organizations/ initiatives such as the Canadian Partnership for Quality Radiotherapy (CPQR) or National Peer Review Study.
- Identify to the CARO Quality and Standards Committee for rationale for its creations.
- Discuss how both academic and community Canadian RT centres could benefit from the committee as a community of practice (COP) driving RT QI initiatives.

1:45-2:45
Reviewer's Choice
Toronto I

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

- Understand a variety of interesting and select topics of radiation therapy innovations, quality of care, and quality of life measurements and how these
- Impact our cancer population.

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INDIVIDUAL PATIENT DATA META-ANALYSIS OF KIDNEY SBRT: A REPORT FROM THE INTERNATIONAL RADIOSURGERY ONCOLOGY CONSORTIUM FOR KIDNEY (IROCK)

Alexander Louie¹, Alexander Muacevic², Michael Staehler², Andrew Warner³, Senthilkumar Gandhihasan⁴, Lee Ponsky⁵, Rodney Ellis⁵, Irving Kaplan⁶, Anand Mahadevan⁶, William Chu⁷, Hiroshi Onishi⁸, Simon Lo⁹, Bin Teh¹⁰, Anand Swaminath¹¹, Rohann Correa¹², Shankar Siva⁴

¹London Regional Cancer Program, London, ON

²University of Munich, Munich, Germany

³London Health Sciences Centre, London, ON

⁴University of Melbourne, Melbourne, Australia

⁵Case Western Reserve University, Cleveland, OH

⁶Harvard University, Boston, MA

⁷University of Toronto, Toronto, ON

8University of Yamanashi, Yamanashi, Japan
9University of Washington, Seattle, WA
10Weil Cornell Medical College, Houston, TX
11McMaster University, Hamilton, ON
12University of Western Ontario, London, ON

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A PROSPECTIVE PHASE II TRIAL OF TRANSPERINEAL ULTRASOUND
GUIDED BRACHYTHERAPY FOR LOCALLY RECURRENT PROSTATE
CANCER AFTER EXTERNAL BEAM RADIOTHERAPY (NRG/RTOG 0526)

Juanita Crook¹, Peixin Zhang², Thomas Pisansky³, Edouard Trabulsi⁴, Mahul
Amin⁵, William Bice⁶, Gerard Morton⁷, Nadeem Pervez⁸, Eric Vigneault⁹, Jeff
Michalski¹⁰, Charles Catton⁷, Mack Roach¹¹, David Beyer¹², Peter Rossi¹³,
Eric Horitz¹⁴, Viroon Donovanik¹⁵, Chistiana Care¹⁵, Howard Sandler⁵

1University of British Columbia, Kelowna, BC
2New Jersey Institute of Technology, Philadelphia, PA
3University of Rochester, Rochester, MN
4Thomas Jefferson University, Philadelphia, PA.
5Cedars-Sinai Medical Center, Los Angeles, CA.
6John Muir Health Systems, Walnut Creek, CA
7University of Toronto, Toronto, ON
8University of Calgary, Calgary, AB
9Centre Hospitalier Universite de Quebec, Quebec, QC
10Washington University, St Louis, MO
11UCSF, San Francisco, CA
12Cancer Center of Northern Arizona, Scottsdale, AZ
13Emory University, Atlanta, GA
14Fox Chase, Philadelphia, PA
15Newark, DE

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A PILOT STUDY OF SALVAGE HDR BRACHYTHERAPY IN PATIENTS WITH
RECURRENT PROSTATE CANCER AFTER PRIMARY RADIATION: TOXICITY
PROFILE AND OUTCOMES

William Foster¹, Eric Vigneault², Marie-Claude Lavallée², André-Guy Martin²

1CHUQ Hotel-Dieu de Quebec, Québec, QC
2Université Laval, Québec, QC

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THE USE OF CHEMOTHERAPY IN PLACE OF RADIOTHERAPY DOES NOT
RESULT IN A LOWER INCIDENCE OF SECOND CANCERS IN PATIENTS
WITH EARLY STAGE SEMINOMA: A POPULATION BASED STUDY IN
BRITISH COLUMBIA

Gaurav Bahl¹, Rima Pathak¹, Jenny Ko¹, Michael Sia¹, Christian
Kollmannsberger², Scott Tyldesley²

1British Columbia Cancer Agency, Abbotsford, BC
2British Columbia Cancer Agency, Vancouver, BC

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RADIOTHERAPY QUALITY ASSURANCE OF CONCURRENT CHEMO-
RADIOTHERAPY IN PROCLAIM PHASE III TRIAL

Anthony Brade¹, Frederik Wenz², Friederike Koppe³, Yolande Lievens⁴, Belen San Antonio⁵, Neill Iscoe⁶, Anwar Hossain⁷, Nadia Chouaki⁸, Suresh Senan⁹

¹Peel Regional Cancer Centre, Mississauga, ON

²University Hospital Mannheim, Mannheim, Germany

³Institute Verbeeten, Tilburg, Netherlands

⁴Ghent University Hospital, Ghent, Belgium

⁵Lilly España, Madrid, Spain

⁶Eli Lilly Canada Inc., Toronto, ON

⁷Eli Lilly and Company, Indianapolis, IN

⁸Eli Lilly and Company, Neuilly-sur-Seine, France

⁹VU University Medical Center, Amsterdam, Netherlands

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OPTIMAL IMAGING FOLLOW-UP SCHEDULES AFTER STEREOTACTIC
ABLATIVE RADIOTHERAPY FOR EARLY NON-SMALL-CELL LUNG CANCER:
FINDINGS OF AN INTERNATIONAL DELPHI CONSENSUS STUDY

Timothy Nguyen¹, Suresh Senan², Jeffery Bradley³, Kevin Franks⁴, Meredith

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2:45-3:00

Keynote

Beyond Medicine – The Human Touch, Life of Professionals!

Shelly Dev

Toronto I

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Anthony Fyles², Kathy Han²

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Khalifa Alkaabi¹, Kurian Joseph¹, Susan Chafe¹, Zsolt Gabos¹, Keith Tankel¹, Patricia Tai²,
Sunita Ghosh¹, Brad Warkentin¹, Heather Warkentin¹, Lee-Anne Polkosnik¹, Kent Powell¹,
Johanna Jacobs¹

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Smith², Ivo A Olivotto²

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Sonja Murchison¹, Brad Wiksyk², Stacey Gossman², Brigit Jensen², Dorothy Sayers², Abraham
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Ankur Sharma¹, Oliver Bucher², Michael Willcock¹, M. Nazir Khan¹, Thelina Amaratunga¹,
Shaun Loewen³, Harvey Quon³, Marco Essig¹, Marshall Pitz¹

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Sangjune Lee¹, Warren Foltz¹, Jenny Lee², Tim Craig¹, Alejandro Berlin², Peter Chung¹, Cynthia Ménard³

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²Princess Margaret Cancer Centre, Toronto, ON

³University of Montreal Hospital (CHUM), Montreal, QC

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Faiez AlShafa¹, Kaden Kujanpaa², Ryan Rivest¹, Arbind Dubey³, Amitava Chowdhury¹, Aldrich Ong¹, Harvey Quon⁴, Shahida Ahmed¹, Bashir Bashir¹, Boyd McCurdy³, Rashmi Koul³

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Michael Ha¹, Olivia Piccolo¹, Nicole Melong², David Parsons¹, Alexandre Detappe³, Olivier Tillement⁴, Ross Berbeco³, Jason Berman², James Robar¹

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⁴Universite de Lyon, Villeurbanne, France

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University of Alberta, Edmonton, AB

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Rohann Correa¹, Andrew Warner², Craig Johnson², George Rodrigues¹, Belal Ahmad¹, Alexander Louie²
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David Tiberi¹, Guila Delouya¹, Sahir Bhatnagar², Maroie Barkati¹, Shanie Campeau¹, Denis Rompotinos¹, Daniel Tausky¹
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²McGill University, Montreal, QC

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Kevin Martell¹, Amandeep Taggar², Siraj Husain¹, Michael Peacock³, Michael Sia³, Geoff Gotto³
¹University of Calgary, Calgary, AB
²Memorial Sloan Kettering Cancer Centre, New York, NY
³University of British Columbia, Vancouver, BC

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1Faiez AlShafa, Andrew Cooke¹, Dorian Murariu¹, Shrinivas Rathod¹, Richard Nason², Ahmet Leylek¹, Jim Butler¹, Rashmi Koul²

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University of Western Ontario, London, ON

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Deepak Dinakaran¹, Andrew Lim¹, Robyn Banerjee², Brock Debenham³

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²Tom Baker Cancer Center, Calgary, AB

³Cross Cancer Institute, Edmonton, AB

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Hanbo Chen¹, Emma Ali¹, Andrew Warner², George Rodrigues², Alexander Louie²

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Ankur Sharma¹, Derek Bueddefeld¹, Mykola Sackett², Pascal Lambert², Vikram Wadhwa³, Rami Kotb¹, Naseer Ahmed¹

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9University of Calgary, Calgary, AB

10Centre Hospitalier Universitaire de Sherbrooke, Sherbrooke, QC

11Institute for Radiation Oncology Arnhem, Arnhem, Netherlands

12Dr. Bernard Verbeeten Instituut, Tilburg, Netherlands

13Christchurch Hospital, Christchurch, New Zealand

14Northeast Ohio Medical University, Akron, OH

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7Grand River Regional Cancer Centre, Kitchener, ON

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14Sunnybrook Odette Cancer Centre, Toronto, ON

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12University of Calgary, Calgary, AB
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Srinivas Raman¹, Vithusha Ganesh¹, Stephanie Chan¹, Ronald Chow¹, Peter Hoskin², Henry Lam¹, Bo Angela Wan, Leah Drost, Carlo DeAngelos, Edward Chow

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Stacey Davidson¹, R. Gabriel Boldt¹, Alexander Louie²

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CancerCare Manitoba, Winnipeg, MB

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Reem Alomran¹, Jill Sutherland², Linda Watson³, Deb Bulych⁴, Rashmi Koul¹

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Ankur Sharma¹, Arbind Dubey¹, Ahmet Leylek¹, Daniel Rickey¹, David Sasaki¹, Chad Harris², Boyd McCurdy¹, Rashmi Koul¹

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University of Ottawa, Ottawa, ON

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Ankur Sharma¹, Arbind Dubey¹, David Sasaki¹, Daniel Rickey¹, Philip McGeachy¹, Chad Harris², Jennifer Beaudry², Joelle Brown², Michele Riel², Michael Smyth², Sandra Iftody², Boyd McCurdy¹, Rashmi Koul¹

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Ahmad Bushehri¹, Biu Chan¹, Olive Wong¹, Jenny Lee², Shao Hui Huang¹, Andrew Bayley¹, John Cho¹, John Kim¹, Jolie Ringash¹, Brian O'Sullivan¹, John Waldron¹, Jean-Pierre Bissonnette¹, Andrea McNiven¹, BeiBei Zhang¹, Andrew Hope¹, Meredith Giuliani¹, Scott Bratman¹

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Srinivas Raman¹, Darby Erler², Lee Chin¹, Patrick Cheung¹, William Chu¹, Hans Chung¹, Andrew Loblaw¹, Ian Poon¹, Joel Rubenstein¹, Hany Soliman¹, Arjun Sahgal¹, Chia-Lin Tseng¹

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Cross Cancer Institute, Edmonton, AB

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Étienne Létourneau, Fabiola Vallejo Castañeda, Fadi Hobeila, Aimée Lauzon

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Daniel Taussky¹, Levon Igdbashian², David Donath¹, Dominic Béliveau-Nadeau¹, Larouche Renée-X¹, Yannick Hervieux¹, Guila Delouya¹

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Marjory Jolicoeur¹, Talar Derashodian², Jurgen Last², Georges Wakil², Maryse Mondat²
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²Universite Sherbrooke, Longueuil, QC

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Talar Derashodian, Universite Sherbrooke, Sherbrooke, QC, Canada
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Universite Sherbrooke, Sherbrooke, QC

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Deepak Dinakaran¹, Ericka Wiebe², Geetha Menon², Michele Janoski², Janet Zimmer², Robert Pearcey², Fleur Huang²
¹University of Alberta, Edmonton, AB
²Cross Cancer Institute, Edmonton, AB

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Hamid Raziee¹, Alejandro Berlin¹, Peter Chung¹, Haiyan Jiang¹, Juanita Crook², Charles Catton¹
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