Preconference – Resident Refresher Course
Convention Level - Toronto II

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 Louden
5:00 Resident Social
(off site)
6:00-7:30 CARO Board Meeting
Preconference
Evolving Trends in Canadian Radiation Oncology
Toronto III

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
All
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.

1  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 Ghoraie, 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

3  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
5 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

6 SECOND CONSERVATIVE TREATMENT FOR BREAST CANCER LOCAL RECURRENCE USING HDR INTERSTITIAL BRACHYTHERAPY: COSMETIC OUTCOME AND QUALITY OF LIFE
Marjory Jolicoeur1, Aly-Thiéman Diakité2, Talar Derashodian2, Maryse Mondat2
1Hopital Charles LeMoyne 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.

7 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

8 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,
1Harvard Medical School, Boston, MA, U.S.A. Tracy Balboni2, Andrew Schoenfeld2, Sonia Skamene2, John Chi2, Marco Ferrone2, Charles Cho2, Mitchel Harris2, Lauren Hertan2
2Brigham and Women's Hospital/Dana-Farber Cancer Institute, Boston, MA
3The University of Hong Kong, Hong Kong, Hong Kong

9 BARRIERS TO REFERRAL FOR PALLIATIVE RADIOTHERAPY: A SYSTEMATIC REVIEW
Jonathan Klein1, Jonathan Livergant2
1University of Toronto, Toronto, ON
2British Columbia Cancer Agency, Victoria, BC
10 BEHAVIOURAL DETERMINANTS OF CANADIAN RADIATION ONCOLOGISTS' USE OF SINGLE FRACTION PALLIATIVE RADIATION THERAPY FOR UNCOMPPLICATED 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

12 ARE PHYSICIANS FOLLOWING GUIDELINES? A REVIEW OF RADIATION ONCOLOGY PRACTICE IN PATIENTS WITH UNCOMPPLICATED 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

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.

13 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 McKillip, Alan Schwartz2, Jeanne Farnan1, Yoon Soo Park2, Radiation Oncology Education Collaborative Study Group
1University of Chicago, Chicago, IL, USA
2University of Illinois at Chicago, Chicago, IL, USA
3IL, USA

14 A NEW FRONTIER: THE USE OF VIRTUAL SIMULATION FOR RADIATION THERAPY EDUCATION FOR BREAST CANCER PATIENTS.
Jenny Soo, Christina Parsons1, Christine Rodrigerson1, Jenny Seow1, Paris-Ann Ingledey2
1British Columbia Cancer Agency, Vancouver, BC
2University of British Columbia, Surrey, BC
15
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, Mike 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?
1Mark Corkum, 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
3 Cancer Centre of Southeastern Ontario, Kingston, ON
4University Health Network, Toronto, ON
RADIOThERAPY FOR LUNG CANCer IN THE INTENSIVE CARE UNIT - A POPULATION BASED ANALYSIS

1Alexander Louie, Lihua Li, Krista Bray Jenkyn, Britney Allen, Andrew Warner, George Rodrigues, David Palma, Salimah Shariff
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.

23 PATTERNS OF RADIATION THERAPY TECHNOLOGY USE IN THE TREATMENT OF BONE METASTASES
Matthew Chan, Robert Olson, Shilo Lefresne, Michael McKenzie
1British Columbia Cancer Agency, Vancouver, BC
2University of British Columbia, Vancouver, BC

24 MULTICENTER EVALUATION OF THE TOLERABILITY OF COMBINED TREATMENT WITH PD-1 AND CTLA-4 IMMUNE CHECKPOINT INHIBITORS AND PALLIATIVE RADIOTHERAPY
1University of Ottawa, Ottawa, ON
2Harvard University, Boston, MA
3Brigham and Women's Hospital/Dana-Farber Cancer Institute, Boston, MA

25 INFORMAL CAREGIVER QUALITY OF LIFE IN A PALLIATIVE ONCOLOGY POPULATION
Cross Cancer Institute, Edmonton, AB

26 DOCUMENTATION OF DRIVING RECOMMENDATIONS FOR PATIENTS RECEIVING WHOLE BRAIN RADIOTHERAPY
Cross Cancer Institute, Edmonton, AB

27 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
28
A SYSTEMATIC REVIEW OF CLINICAL OUTCOMES FOLLOWING CHEMORADIOThERAPY FOR ANAL CANCER IN HIV-POSITIVE PATIENTS ON HIGHLY-ACTIVE ANTI-RETROVIRAL THERAPY (HAART)
Rohann Correia1, Robert Dinniwell1, 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

29
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

30
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 Tsaol, Arjun Sahgal1, Hany Soliman1
1University of Toronto, Toronto, ON
2Sunnybrook Health Sciences Centre, Toronto, ON

31
OUTCOMES OF HYPOFRACTIONATED STEREOTACTIC RADIOTHERAPY FOR INTRACRANIAL MENINGIOMA: A SYSTEMATIC REVIEW OF THE LITERATURE
Timothy Nguyen, Eric Nguyen2, Hanbo Chen1, R. Gabe Boldt1, Alexander Louie1, Glenn Bauman1
1London Health Sciences Centre, London, ON
2Juravinski Cancer Centre, Hamilton, ON

32
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. Koulielis1, Quinn Matthews1, Nick Chng1, Bronwen Engel1, Boris Valev1, Robert Olson2
1British Columbia Cancer Agency, Prince George, BC
2University of British Columbia, Vancouver, BC
34 PLERIXAFOR IMPROVES PRIMARY TUMOUR RESPONSE AND REDUCES NODAL METASTASIS IN CERVICAL CANCER TREATED WITH RADIOCHEMOTHERAPY
Magali Lecavalier-Barsoum1, Naz Chaudary2, Pratibha Tapa2, Meegan Larsen3, Melania Pintile1, 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

35 PATTERNS OF IPSILATERAL REGIONAL NODAL RELAPSE IN BREAST CANCER: A REVIEW OF THE RTOG BREAST CANCER ATLAS
Laura Beaton, Luminita Nica2, Gareth Ayre2, Kenny Sek2, Maria Aparicio2, Lovedeep Gondara2, Caroline Speers2, Scott Tyldeley2, Alan Nichol2
1British Columbia Cancer Agency, Vancouver, BC
2University of British Columbia, Vancouver, BC

36 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 Dinniwell2, 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

37 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

38 PARTIAL BREAST RADIOTHERAPY WITH PD-103 PERMANENT BREAST SEED IMPLANT: APPLICABILITY AND PATIENT ACCEPTANCE
Martin Korzeniowski, Laurie Pilote, Deidre Batchelor, 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.

39
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

40
STEREOTACTIC ABLATIVE RADIOTHERAPY VERSUS SURGERY IN EARLY LUNG CANCER: A META-ANALYSIS OF PROPENSITY SCORE-ADJUSTED COMPARATIVE EFFECTIVENESS STUDIES

41
IMPROVED DISEASE CONTROL WITH ADJUVANT THERAPY FOR STAGE IA SEROUS AND CLEAR CELL UTERINE CANCER: A POOLED MULTI-INSTITUTIONAL ANALYSIS
Xuanlu Qu, 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
5 Henry Ford Hospital, Detroit, MI
6 McMaster University, Hamilton, ON
7 University of Alberta, Edmonton, AB
8 Gynecology/Oncology, Detroit, MI
9 London Health Sciences Centre, London, ON

42 CBCT DERIVED radiosensitivity marker associated with radiation pneumonitis
1 Pencilla Lang, Douglas Moseley2, Uffe Bernchou3, Carsten Brink3, Andrew Hope1
1 University of Toronto, Toronto, ON
2 Princess Margaret Cancer Centre, Toronto, ON
3 Odense University Hospital, Odense, Denmark

43 STEREOTACTIC BODY RADIOTHERAPY FOR OLIGOMETASTATIC AND OLGOPROGRESSIVE DISEASE
Catherine Pembroke, Neil Kopek
McGill University, Montreal, QC

44 VALIDATION OF THE TEACHH SCORE FOR PREDICTION OF LIFE EXPECTANCY IN PATIENTS WITH METASTASIS TO THE SPINE
1 Maryam Dosani, Tim Kong2, Sarah Lucas1, Jordan Wong1, Mitchell Liu1, Scott Tyldesley1
1 British Columbia Cancer Agency, Vancouver, BC
2 University 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

45 METABOLIC TUMOUR VOLUME IS PROGNOSTIC OF OUTCOMES IN PATIENTS WITH NON-SMALL CELL LUNG CANCER TREATED WITH STEREOTACTIC ABLATIVE RADIOTHERAPY
1 Maryam Dosani, Ruobing Yang1, Don Wilson1, Mitchell Liu1, Charlotte J. Yong-Hing1, Jeremy Hamm1, Chad R. Lund2, Devin Schellenberg2
1 British Columbia Cancer Agency, Vancouver, BC
2 British Columbia Cancer Agency, Surrey, BC

46 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 Filion, Alexis Lenglet, Houda Bahig, David Roberge, Marie-Pierre Campeau
Université de Montréal, Montréal, QC, Canada
Centre hospitalier de l'Université de Montréal, Montréal, QC
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

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

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

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

MRI VALIDATION OF POST-PROSTATECTOMY RADIOTHERAPY CONTOURING GUIDELINES
Mo Manji1, Juanita Crook1, Leigh Bartha1, Rasika Rajapakse1
1British Columbia Cancer Agency, Kelowna, BC
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

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

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

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

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 Hospitalier Universitaire de Québec, Québec QC

12:30-2:30
Lunch
Industry Symposium
Committee Meetings
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.

57 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 Lafliamme6, Cynthia Araujo1, Batchelor 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 Dagnault, 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
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
1 British Columbia Cancer Agency, Vancouver, BC
2 Princess Margaret Cancer Centre, Toronto, ON
3 Tom Baker Cancer Centre, Calgary, AB
4 Cross Cancer Institute, Edmonton, AB
5 Dr. H Bliss Murphy Cancer Center, St. John’s, NL
6 Centre hospitalier de l’Université de Montréal, Montreal, QC

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 Isaranuwatchai2, Michael Milosevic4
1 Simcoe Muskoka Regional Cancer Program, Barrie, ON
2 St Michael’s Hospital, Toronto, ON
3 Cancer Care Ontario, Toronto, ON
4 University of Toronto, Toronto, ON
5 Aarhus University Hospital, Aarhus, Denmark
6 London Health Sciences Centre, London, ON
7 Odette Cancer Centre, Toronto, ON

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.

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
1 Princess Margaret Cancer Centre, Toronto, ON
2 British Columbia Cancer Agency, Vancouver, BC
3 University of Toronto, Toronto, ON
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

EXTREME HYPOFRACTIONATION FOR HIGH RISK PROSTATE CANCER: DOSIMETRIC CORRELATIONS WITH RECTAL BLEEDING
Glenn Bauman1, Jeff Chen2, George Rodrigues2, Kristina Commissio3, 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

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

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 Duimrering, Shannah Murland, Zsolt Gabos, Keith Tankel
University of Alberta, Edmonton, AB, Canada

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

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.
69 PRECLINICAL ASSESSMENT OF ACUTE AND LATE GASTROINTESTINAL TOXICITY WITH THE ADDITION OF PLERIXAFOR TO RADIOCHEMOTHERAPY 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

71 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

72 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 Velker12, 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
12London Health Sciences Centre, London, ON

73 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
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
Toronto I
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
Toronto I
Why Wouldn't Ya? A Win/Win Strategy Using Advanced Practice Radiation Therapists
Nicole Harnett, Robert Dinniwell, Padraig 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.
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.

75
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

76
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, Canada
2University of British Columbia, Vancouver, BC

77
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
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 McNiven2, Aaron Hansen1, David Goldstein1, Hugo Aerts4, John Waldron1, Benjamin Haibe-Kains1, Brian O’Sullivan1, Scott Bratman1, Fei-Fei Liu1

1University of Toronto, Toronto, ON
2University Health Network, Toronto, ON
3Princess Margaret Cancer Centre, Toronto, ON
4Dana-Farber Cancer Institute, Boston, MA

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

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-Ordonez2, Ilan Weinreb2, Li Tong2, Wei Xu3, Andrew Hope3

1University of Toronto, Toronto, ON
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.

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

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
83 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

84 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

85 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

86 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
Toronto I
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 II
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.

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.

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 Gandhhihasan4, 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
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 Donavanik15, 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

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, Quebec, QC
2Université Laval, Quebec, QC

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
RADIOTHERAPY QUALITY ASSURANCE OF CONCURRENT CHEMORADIOTHERAPY IN PROCLAIM PHASE III TRIAL
Anthony Brade1, Frederik Wenz2, Friederike Koppe3, Yolandie 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

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 Giuliani5, Matthias Guckenberger6, Mark Landis7, Billy Loo Jr8, Alexander Louie6, Hiroshi Onishi9, Heidi Schmidt10, Robert Timmerman11, Gregory Videtic12, David Palma7
1London Health Sciences Centre, London, ON
2VU University Medical Center, Amsterdam, Netherlands
3Washington University, St. Louis, MO
4Leeds University, Leeds, United Kingdom
5Princess Margaret Cancer Centre, Toronto, ON
6University Hospital Wuerzburg, Wuerzburg, Germany
7London Health Sciences Centre, London, ON
8Stanford University School of Medicine, Stanford, CA.
9University of Yamanashi, Yamanashi, Japan
10 Women's College Hospital, Toronto, ON
11University of Texas Southwestern Medical Center, Dallas, TX.
12Cleveland Clinic, Cleveland, OH

2:45-3:00 Keynote
Beyond Medicine – The Human Touch, Life of Professionals!
Shelly Dev
Toronto I

3:00-3:15 Closing Remarks
Toronto I
ROLE OF MRI IN DETECTING LOCAL FAILURE FOLLOWING DEFINITIVE CHEMORADIATION IN LOCALLY ADVANCED CERVICAL CANCER
Pencilla Lang1, Jennifer Croke2, Magali Lecavalier-Barsoum2, Shira Felder2, Michael Milosevic2, Anthony Fyles2, Kathy Han2
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON

CLINICAL APPLICATION OF THREE-DIMENSIONAL PRINTING FOR SURFACE HIGH-DOSE RATE BRACHYTHERAPY
Yizhou Zhao, Kathryn Moran, Mammo Yewondwossen, James Allan, Scott Clarke, Paul Joseph, James Robar
Dalhousie University, Halifax, NS

CARDIAC SPARING RADIOTHERAPY USING CUSTOMIZED BREAST SHELL FOR LEFT SIDED BREAST CANCER PATIENTS
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
1University of Alberta, Edmonton, AB
2University of Saskatchewan, Regina, SK

TRANSLATING RESEARCH INTO PRACTICE – EARLY RESULTS OF AN INSTITUTIONAL POLICY CHANGE FOR DEEP INSPIRATION BREATH HOLD (DIBH) IN RIGHT-SIDED BREAST CANCER PATIENTS
Jessica L Conway1, Karen Long2, Tien Phan2, Peter Craighead2, Leigh Conroy2, Wendy Smith2, Ivo A Olivotto2
1Tom Baker Cancer Centre, Calgary, AB
2University of Calgary, Calgary, AB

SUBVENTRICULAR ZONE DOSE AND OUTCOME IN A LARGE COHORT OF GLIOBLASTOMA MULTIFORME TREATED WITH SURGERY AND CONCURRENT CHEMORADIOThERAPY BETWEEN 2006 – 2012
Sonja Murchison1, Brad Wiksyk2, Stacey Gosman2, Brigit Jensen2, Dorothy Sayers2, Abraham Alexander2
1British Columbia Cancer Agency Vancouver Centre, Vancouver, BC
2British Columbia Cancer Agency Vancouver Island Centre, Victoria, BC

INSTITUTIONAL REVIEW OF GLIAL TUMOURS TREATED WITH CHEMOTHERAPY: THE FIRST DESCRIPTION OF PCV-RELATED PSEUDOPROGRESSION
Ankur Sharma1, Oliver Bucher2, Michael Willcock1, M. Nazir Khan1, Thelina Amaratunga1, Shaun Loewen3, Harvey Quon3, Marco Essig1, Marshall Pitz1
1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB
3University of Calgary, Calgary, AB
99
CHANGES IN APPARENT DIFFUSION COEFFICIENT (ADC) OF THE DOMINANT TUMOUR DURING DOSE-PAINTED RADIOThERAPY AND HIGH DOSE RATE (HDR) BRACHYTHERAPY FOR PROSTATE CANCER
Sangjune Lee1, Warren Foltz1, Jenny Lee2, Tim Craig1, Alejandro Berlin2, Peter Chung1, Cynthia Ménard3
1University of Toronto, Toronto, ON
2 Princess Margaret Cancer Centre, Toronto, ON
3University of Montreal Hospital (CHUM), Montreal, QC

100
SHOULD PTV MARGIN BE INCREASED IF ONE OR TWO PROSTATE SEEDS MIGRATE?
Faiez AlShafa1, Kaden Kujanpaa2, Ryan Rives1, Arbind Dubey3, Amitava Chowdhury1, Aldrich Ong1, Harvey Quon4, Shahida Ahmed1, Bashir Bashir1, Boyd McCurdy3, Rashmi Koul3
1CancerCare Manitoba, Winnipeg, MB
2University of Toronto, Toronto, ON
3University of Manitoba, Winnipeg, MB
4University of Calgary, Calgary, AB

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1Dalhousie University, Halifax, NS
2IWK Health Centre, Halifax, NS
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1University of Western Ontario, London, ON, Canada
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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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1University of Western Ontario, London, ON
2Sydney, NSW, Australia

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1CancerCare Manitoba, Winnipeg, MB
2University of Manitoba, Winnipeg, MB

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University of Western Ontario, London, ON

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Deepak Dinakaran1, Andrew Lim1, Robyn Banerjee2, Brock Debenham3
1University of Alberta, Edmonton, AB
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
1University of Western Ontario, London, ON
2London Health Sciences Centre, London, ON

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1University of Western Ontario, London, ON
2London Health Sciences Centre, London, ON
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1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB
3New York - Presbyterian, New York, NY

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1Cross Cancer Institute, Edmonton, AB
2University of Calgary, Calgary, AB
3University of Leuven, Leuven, Flanders, Belgium
4Northern Alberta Institute of Technology, Edmonton, AB
5University of Alberta, Edmonton, AB
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1University of Toronto, Toronto, ON
2Queen's University, Kingston, ON
3McMaster University, Hamilton, ON
4Centre Hospitalier Universitaire de Sherbrooke, Sherbrooke, QC
5Hopital Maisonneuve-Rosemont, Montreal, QC
6CHUM-Hopital Notre-Dame, Montreal, QC
7CancerCare Manitoba, Winnipeg, MB
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1University of Toronto, ON
2University of Toronto, Toronto, ON
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5Leiden University Medical Centre, Leeuwarden, Netherlands
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Rebecca K. S. Wong1, Liting Zhu2, Genevieve Coulombe15, Michael Brundage2
1University of Toronto, Toronto, ON
2Queen's University, Kingston, ON
3McMaster University, Hamilton, ON
4Centre Hospitalier Universitaire de Sherbrooke, Sherbrooke, QC
5Hopital Maisonneuve-Rosemont, Montreal, QC
6CancerCare Manitoba, Winnipeg, MB
7Grand River Regional Cancer Centre, Kitchener, ON
8London Regional Cancer Program, London, ON
9Cancer Centre of Southeastern Ontario, Kingston, ON
10Cross Cancer Institute, Edmonton, AB
11Canadian Clinical Trials Group, Cancer Research Institute, Kingston, ON
12University of Calgary, Calgary, AB
13University of Ottawa, Ottawa, ON
14Sunnybrook Odette Cancer Centre, Toronto, ON
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Aamer Mahmud10, Alysa Fairchild11, Carolyn F. Wilson2, Jackson S. Y. Wu12, Kristopher
Dennis13, Carlo DeAngelis1, Rebecca K. S. Wong1, Liting Zhu2, Michael Brundage2
1University of Toronto, Toronto, ON
2Queen's University, Kingston, ON
3McMaster University, Hamilton, ON
4Centre Hospitalier Universitaire de Sherbrooke, Sherbrooke, QC
5Hopital Maisonneuve-Rosemont, Montreal, QC
6CHUM-Hopital Notre-Dame, Montreal, QC
7Canadian Clinical Trials Group, Cancer Research Institute, Kingston, ON
8London Regional Cancer Program, London, ON
9Cancer Centre of Southeastern Ontario, Kingston, ON
10Cross Cancer Institute, Edmonton, AB
11Canadian Clinical Trials Group, Cancer Research Institute, Kingston, ON
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1University of Toronto, Toronto, ON
2University College London, London, United Kingdom

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1University of Toronto, Toronto, ON
2University Health Network, Toronto, ON
3University of Western Ontario, London, ON
4MD Anderson Cancer Center, University of Texas, Houston, TX

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Stacey Davidson1, R. Gabriel Boldt1, Alexander Louie2
1University of Western Ontario, London, ON
2London Health Sciences Centre, London, ON

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1University of Toronto, Toronto, ON
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1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB

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1University of Toronto, Toronto, ON
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1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB
3Alberta Health Services, Calgary, AB
4Saskatchewan Cancer Agency, Regina, MB

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1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB

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Ankur Sharma1, Arbind Dubey1, Ahmet Leylek1, Daniel Rickey1, David Sasaki1, Chad Harris2, Boyd McCurdy1, Rashmi Koul1
1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB
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Soha Atallah, Marc Gaudet, Robert MacRae, Peter Cross, Jason Pantarotto
University of Ottawa, Ottawa, ON

PERCEPTIONS AND TIME EFFECTIVENESS OF UTILIZING 3D PRINTER TECHNOLOGY TO CREATE RIGID BOLUS FOR RADIOTHERAPY

Ankur Sharma1, Arbind Dubey1, David Sasaki1, Daniel Rickey1, Philip McGeechy1, Chad Harris2, Jennifer Beaudry2, Joelle Brown2, Michele Riel2, Michael Smyth2, Sandra Iftody2, Boyd McCurdy1, Rashmi Koul1
1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB

AUTOMATED ASSESSMENT OF NASOPHARYNX CANCER GTV CHANGE ON DAILY CONE BEAM CT

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
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON

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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
1University of Toronto, Toronto, ON
2Sunnybrook Odette Cancer Centre, Toronto, ON

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Michael H. Wang, Melissa Hwang, Diane Severin, Zsolt Gabos, Tirath Nijjar, Brock Debenham, Wilson Roa, Don Yee, Karen P. Chu, Rufus Scrimger, Alysa Fairchild
Cross Cancer Institute, Edmonton, AB

A CONTAMINATED BRACHYTHERAPY IR-192 SOURCE FOUND DURING A ROUTINELY SOURCE EXCHANGE: OUR EXPERIENCE AND LESSONS LEARNED

Étienne Létourneau, Fabiola Vallejo Castañeda, Fadi Hobaila, Aimée Lauzon
Université de Montréal, Laval, QC

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Daniel Taussky1, Levon Igidbashian2, David Donath1, Dominic Béliveau-Nadeau1, Larouche Renée-X1, Yannick Hervieux1, Guila Delouya1
1Université de Montréal, Montréal, QC
2Cité de la Santé Laval, Laval, QC
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1Hopital Charles LeMoyne CICM, Montréal, QC
2Universite Sherbrooke, Longueuil, QC

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Talar Derashodian, Universite Sherbrooke, Sherbrooke, QC, Canada
Melissa Le, Maryse Mondat, George Wakil, Jurgen Last, Marjory Jolicoeur
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
1University of Toronto, Toronto, ON, Canada
2British Columbia Cancer Agency, Kelowna, BC

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1CHUQ, Québec, QC
2Université de Laval, Quebec, QC

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1CHUQ, Quebec, QC
2University of Calgary, Calgary, AB
3University of Montreal, Montreal, QC
4University of Laval, Quebec, QC
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1British Columbia Cancer Agency, Kelowna, BC
2Dalhousie University, Halifax, NS
3Departamento Oncología Radioterapia, Madrid, Spain
4United Lincolnshire Hospitals, Lincoln, United Kingdom
5British Columbia Cancer Agency, Abbotsfo, BC
6British Columbia Cancer Agency, Surrey, BC
7Centre Hospitalier Universitaire de Sherbrooke, Sherbrooke, QC

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Princess Margaret Cancer Centre, Toronto, ON

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Princess Margaret Cancer Centre, Toronto, ON

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Jonathan Klein, Gregory Czarnota
University of Toronto, Toronto, ON

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1University of British Columbia, Vancouver, BC
2University of British Columbia, Prince George, BC
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1McGill University Health Center, Montreal, QC
2Stanford University Medical Center, Stanford, CA
3University of British Columbia, Surrey, BC
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2Harvard Medical School, Boston, MA
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1British Columbia Cancer Agency, Prince George, BC
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Lucas Mendez1, Gustavo Fernandes2, Eduardo Weltman3
1Sunnybrook Health Sciences Centre, Toronto, ON
2Hospital Sírio Libanês, Brasília, Brazil
3Hospital Israelita Albert Einstein and University of São Paulo, São Paulo, Brazil

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1University of Western Ontario, London, ON
2VU University Medical Centre, Amsterdam, Netherlands
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1University of Toronto, Toronto, ON
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Corinne Thompson1, Robert Olson2, Erika Brown3, Vincent Lapointe4
1Cross Cancer Institute, Kelowna, BC
2British Columbia Cancer Agency, Prince George, BC
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Brian Liszewski
Odette Cancer Centre, Toronto, ON

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Bonnie Bristow1, Andreia Scalco2, Lisa Di Prospero2
1Odette Cancer Centre, Toronto, ON
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1Odette Cancer Centre, Toronto, ON
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Benoit Paquette
Université de Sherbrooke, Sherbrooke, QC

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Patricia Tai1, Asim Amjad2, Rashmi Koul3, Arbind Dubey3, Nelson Leong2, Evgeny Sadikov2, Wojciech Dolata2, Edward Yu4, David Skarsgard5
1Allan Blair Cancer Centre, Regina, SK
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Andrew Loblaw1, Patrick Cheung1, Geordi Pang1, Alexandre Mamedov1, Laura D’Alimonte1, Andrea Deabreu1, Kristina Commissio1, Lying Zhang1, Harvey Quon2, Bindu Musunuru3, Joelle Helou1
1University of Toronto, Toronto, ON
2University of Calgary, Calgary, AB
3University of Wisconsin, Madison, WI

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1Sunnybrook Odette Cancer Centre, University of Toronto, Toronto, ON
2Northeast Cancer Centre, Health Sciences North, Sudbury, ON
3Centre for Cancer Research and Cell Biology, Queen’s University, Belfast, United Kingdom
4Macrostat Inc., Toronto, ON

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1Centre Hospitalier de l’Université de Montréal, Montreal, QC
2Academic Hospital Braunschweig, Braunschweig, Germany
3University Hospital Hamburg-Eppendorf, Hamburg, Germany
WITHDRAWN

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Daniel Taussky1, Denis Soulîères1, Laurent Azoulay2, Hui Yin2, Jean-Paul Bahary1, Houda Bahig1, Guila Delouya1
1Université de Montréal, Montréal, QC
2McGill University, Montreal, QC

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Patricia Tai1, Asim Amjad2, Wojciech Dolata2, Miroslav Jancewicz2, Arbind Dubey3, Rashmi Kou3, Nelson Leong2, Edward Yu4, Evgeny Sadikov2
1Allan Blair Cancer Centre, Regina, SK
2University of Saskatchewan, Regina, SK
3University of Manitoba, Winnipeg, MB
4University of Western Ontario, London, ON

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Asma Saidi, Israël Fortin, Marie-Claude Beauchemin, Suzanne Kazandjian, Maroie Barkati Centre Hospitalier de l'Université de Montréal, Montréal, QC

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University of Alberta, Edmonton, AB

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University of British Columbia, Vancouver, BC

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1Harvard Medical School, Boston, MA
2Brigham and Women's Hospital/Dana-Farber Cancer Institute, Boston, MA

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Clare McGrath1, Kelly Linden2, Julie Renaud2, Alain Haddad1, Marc Gaudet1, Jason Pantarotto1, Kristopher Dennis1
1University of Ottawa, Ottawa, ON
2The Ottawa Hospital, Ottawa, ON

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Jessica Chan1, Kelly Linden2, Clare McGrath1, Julie Renaud2, Paula Doering2, William MacDonald3, Marc Gaudet1, Jason Pantarotto1, Timothy Asmis1, Kristopher Dennis1
1University of Ottawa, Ottawa, ON
2The Ottawa Hospital, Ottawa, ON
3Government of Nunavut, Iqaluit, NU

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1The Ottawa Hospital, Ottawa, ON
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Carina Feuz1, Tara Rosewall1, Susan Willis2
1University of Toronto, Toronto, ON
2Sheffield Hallam University, Sheffield, United Kingdom

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Carina Feuz1, Lorraine Hulley2
1University of Toronto, Toronto, ON
2Niagara College, Welland, ON

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Stephanie Peters1, C. Suzanne Drodge2
1Laurentian University, Sudbury, ON
2Memorial University, St. John’s, NL

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John French, Alison Gidding
British Columbia Cancer Agency, Vancouver, BC

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John French, Jenny Soo, Luminita Nica, Lorenz Yeung
British Columbia Cancer Agency, Vancouver, BC

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Mary McLay1, Robert Olson1, Russ Callaghan2
1University of British Columbia, Vancouver, BC
2University of Northern British Columbia, Prince George, BC

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Gunita Mitera1, Craig C. Earle2, Jeffrey Hoch3, Anand Swaminath4, Michael D. Brundage5, Mark J. Dobrow1
1University of Toronto, Toronto, ON
2Ontario Institute for Cancer Research, Toronto, ON
3University of California at Davis, Davis, CA
4McMaster University, Hamilton, ON
5Queen's University, Kingston, ON
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Michelle Ang1, Elizabeth Murray1, Carina Simniceanu1, Elizabeth Lockhart1, Eric Gutierrez1, Padraig Warde2
1CancerCare Ontario, Toronto, ON
2University of Toronto, Toronto, ON

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Alexa Dang1, Robert Olson1, Dan Horvat2, Tammy Klassen-Ross3
1University of British Columbia, Vancouver, BC
2Northern Health, Prince George, BC
3University of Northern British Columbia, Prince George, BC

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Benjamin Mou1, Sarah McGregor2, Francois Germain1, Siavash Atrchian1, Sarah Lucas1, Angela Lin1, Christopher Baliski1, Islam Mohamed1
1British Columbia Cancer Agency, Kelowna, BC
2University of British Columbia Okanagan Campus, Kelowna, BC

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1Cross Cancer Institute, Edmonton, AB
2University of Alberta, Edmonton, AB

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Lee Ann Martin1, Frances Wong1, Rhonda Janzen2, Paul Oxley2, Peter Doris2
1British Columbia Cancer Agency, Surrey, BC
2Surrey Memorial Hospital, Surrey, BC

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1Princess Margaret Cancer Centre, Toronto, ON
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1Princess Margaret Cancer Centre, Toronto, ON
2King Hussein Cancer Centre, Amman, Jordan
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Carina Simniceanu1, Eric Gutierrez1, Elizabeth Murray1, Michelle Ang1, Elizabeth Lockhart1, Gaylene Medlam2, Brian Liszewski3, Jordan Hunt4, Spencer Ross4, Erika Brown5, Padraig Warde6, Crystal Angers7
1Cancer Care Ontario, Toronto, ON
2Peel Regional Cancer Centre, Toronto, ON
3Odette Cancer Centre, Toronto, ON
4CIHI, Ottawa, ON
5CPQR, Red Deer, AB
6University of Toronto, Toronto, ON

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1McMaster University, Hamilton, ON
2Walker Family Cancer Centre, St. Catharines, ON
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1QEII Health Sciences Centre, Halifax, NS
2Dalhousie University, Halifax, NS

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1Dalhousie University, Sydney, NS, Canada
2Dalhousie University, Halifax, NS, Canada
3Dalhousie University, Saint John, NB, Canada
4Dalhousie University, Charlottetown, PE, Canada

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1British Columbia Cancer Agency, Vancouver, BC
2University of Washington Medical Center, Seattle, WA
3University of British Columbia, Vancouver, BC
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University of Toronto, Toronto, ON

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Michael Lamey1, Grace Zeng2, Yongjin Wang2, Jasper Yuen2, Julie Murphy1
1Credit Valley Hospital, Mississauga, ON
2University of Toronto, Toronto, ON

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1The Ottawa Hospital, Ottawa, ON
2Carleton University, Ottawa, ON
3University of Ottawa, Ottawa, ON

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Joanna Laba1, Patrick Granton2, Abigail Erickson3, Barbara Millman3, David Palma1, Alexander Louie1
1University of Western Ontario, London, ON
2Erasmus MC, Rotterdam, Netherlands
3London Health Sciences Centre, London, ON

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Princess Margaret Cancer Centre, Toronto, ON

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The Ottawa Hospital, Ottawa, ON
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Princess Margaret Cancer Centre, Toronto, ON

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Michael Abdalmassih1, Sankar Venkataraman1, James Butler1, Dorian Murariu2, Arbind Dubey1
1University of Manitoba, Winnipeg, MB
2Winnipeg, MB

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University of Toronto, Toronto, ON

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Tsz Kin Bernard Lee1, Darren Poon2, Anthony Ng2, Terence Ho2, Savitri Singh-Carlson3, Michel Joffres4, Gurpreet Oshan5, Jagbir Kohli6, Winkle Kwan6
1British Columbia Cancer Agency, Abbotsford, BC
2The Chinese University of Hong Kong, Hong Kong
3California State University Monterey Bay, Marina, CA
4Simon Fraser University, Burnaby, BC
5University of British Columbia, Vancouver, BC
6British Columbia Cancer Agency, Surrey, BC

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Amanda Bolderston1, Rachel Harris2, Angela Cashell3, Maurene McQuestion3, Michele Cardoso4, Clare Summers5
1University of British Columbia, Surrey, BC
2London, United Kingdom
3University of Toronto, Toronto, ON
4McMaster University, Hamilton, ON
5Halifax, NS

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Fatemeh Fekrmandi1, Tony Panzarella1, Robert Dinniwell2, Wilfred Levin1
1University of Toronto, Toronto, ON
2University of Western Ontario, London, ON

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Francois Bachand1, Bhavan Panghali2, Sara Taylor2, Rasika Rajapakshe2
1British Columbia Cancer Agency, Kelowna, BC
2University of British Columbia, Kelowna, BC
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Niranjan Venugopal, Vijayananda Kundapur
University of Saskatchewan, Saskatoon, SK

THE ROLE OF CBCT AS PART OF A DAILY IMAGE GUIDED RADIOTHERAPY IN PROSTATE CANCER PATIENTS REQUIRING POSTOPERATIVE TREATMENT
Sara Elakshar, Tamim Niazi, Boris Bahoric, Nada Tomic, Frank Bladou, Joseph Papayanatos
McGill University, Montreal, QC