



CARO ASM 2016
Quality and Safety in Radiation Oncology
September 14-17, 2016 – Fairmont Banff Springs, Banff, AB

Working Copy: June 27, 2016

Wednesday September 14, 2016
 Preconference - Resident Refresher Course
 Mezzanine II - Alhambra Room

Facilitator: Meredith Giuliani

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

- Give an evidence-based overview of the indications for lung, spine and liver SBRT and brain SRS;
- Review the normal tissue tolerances, and acute and late side effects associated with body SBRT and brain SRS;
- Explore emerging frontiers for the delivery of lung SBRT;
- Discuss the planning parameters and image guidance considerations for body SBRT and brain SRS.

7:00-7:50	Registration and Breakfast
7:50-8:00	Welcome and Introductions
8:00-9:00	Introduction to Spine SBRT John Cho
9:00-10:00	Liver SBRT: Indications, Planning Considerations, Contouring & Image Guidance Laura Dawson
10:00-10:20	Break
10:20-11:20	Brain SRS: Current Evidence, Planning Overview and Presentation of Challenging Cases David Roberge
11:20-12:05	Lung SBRT Panel: Challenging Cases and New Frontiers in Lung SBRT Alexander Louie
12:05-1:30	Lunch

1:30-4:30	Quality at CARO Quality and Safety in Radiation Therapy Workshop Facilitator: Stephen Breen Contemporary radiation medicine presents new challenges to radiation oncologists in efforts to provide the safest, highest quality care to patients. The emergence of personalized/precision patient care within a dynamic, interdisciplinary medical practice combined with continuously changing treatment paradigms must be harmonized with practices that promote quality and safety. Objectives: Upon completion of this interactive session, attendees should be able to: • Describe the importance of physician engagement on quality and safety in radiation therapy; • Adopt a systems thinking approach to initiate quality improvement in patient care and radiation treatment work flow; • Describe the challenges and opportunities of ensuring quality and safety when embedding personalized medicine practice in a culture of systems thinking.
1:30-2:17	Overview of Competing Pressures in Radiation Medicine Presentation, Video, Small Group Discussion, Debrief Michael Milosevic
2:17-3:10	Properties of Systems Presentation, Video, Small Group Discussion, Debrief Stephen Breen
3:10-4:05	Humans in Systems Presentation, Video, Small Group Discussion, Debrief Svetlana Taneva-Metzger
4:05-4:30	Embedding Adaptive Radiation Therapy in a Systems Thinking Culture Michael Milosevic
5:00-6:30	Resident Career Counselling Wild Bill's Saloon 201 Banff Ave, 2nd Floor t: 403-762-0333
6:00-9:00	CARO Board Meeting Frontenac, Mezzanine I

Thursday September 15, 2016

- 7:15-8:15 Meet and Greet
(invitation only)
Conservatory
- 7:30-8:30 Registration and Breakfast
Mezzanine II – Curio Foyer
- 8:30-8:45 Welcome and Introductions
Cascade Ballroom
Fabio Cury
Eric Vigneault
- 8:45-10:15 Theme Symposium
Driving Radiotherapy Quality Improvement across Canada: Local, Regional and National Perspectives
Moderator: Gunita Mitera
- Marc Gaudet, Haresh Vachhrajani – Local Representatives
Amanda Caissie, Ivo Olivotto – Regional Representatives
Michael Brundage, Michael Milosevic – National Representatives
- Objectives: At the end of this session, the participants will be able to:
- Discuss current quality and safety programs being integrated into centres across the country;
 - Learn key drivers of quality improvement, from “grass roots” to regional coordinating efforts and large national initiatives;
 - Discuss the multidisciplinary aspect of quality and safety in radiotherapy (RT).
- 10:15-10:45 Break
- 10:45-11:45 CARO Lecture
Introduction: Eric Vigneault
- Radiotherapy for All: Global Demand and Benefit
Michael Barton
- Objectives: At the end of this session, the participants will be able to:
- Understand the assumptions inherent in assessing demand for radiotherapy;
 - Consider the variation in radiotherapy demand and benefit around the world.
- 11:45-12:45 Oral Session 1 – Radiation Treatment Planning
Cascade Ballroom
Moderator: Alexander Louie
- Objectives: At the end of this session, the participants will be able to:
- Understand important concepts involved in treatment planning and delivery of modern radiation therapy;
 - Discuss the importance and outcomes related to the peer review process of radiation treatment planning.
- 1
THE POTENTIAL BENEFIT OF ESOPHAGEAL SPARING DURING
PALLIATIVE RADIOTHERAPY FOR LUNG CANCER
Patrick V Granton, David A Palma, Alexander V Louie
University of Western Ontario, London, ON

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QUANTIFYING THE OUTCOME OF RADIATION THERAPY PEER REVIEW
AND IDENTIFYING THE OPTIMAL TIMING FOR QUALITY ASSURANCE
MEETINGS WITHIN THE RADIOTHERAPY PLANNING PROCESS

Joanna Mackenzie¹, Gillian Graham², Robyn Banerjee³, Elizabeth Kurien³, Tien Phan³, Ivo Olivotto²

¹Edinburgh Cancer Centre, Edinburgh, United Kingdom

²Tom Baker Cancer Centre, Calgary, AB

³University of Calgary, Calgary, AB

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LARYNGEAL MOTION DYNAMICS USING 4D-COMPUTED TOMOGRAPHY
AND DYNAMIC MAGNETIC RESONANCE IMAGING

Houda Bahig, Félix P. Nguyen-Tan, Edith Filion, David Roberge, Pensavan

Thanomsack, Robert Doucet, Danis Blais, Louise Lambert

Centre Hospitalier de l'Université de Montréal, Montreal, QC

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PATTERNS OF CARE AMONG CANADIAN RADIATION ONCOLOGISTS AND
UROLOGISTS RELATED TO POSTOPERATIVE RADIOTHERAPY FOR
PATIENTS WITH PROSTATE CANCER

Bonnie Bristow¹, Mohammed Aldehaim², Katija Bonin², Chee Ka Candice Lam³,
Xingshan Cao², Ewa Szumacher¹

¹Odette Cancer Centre, Toronto, ON

²Sunnybrook Health Sciences Centre, Toronto, ON

³University of Toronto, Toronto, ON

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DOES PEER REVIEW OF RADIATION TREATMENT PLANS IMPACT
CLINICAL CARE? A SYSTEMATIC REVIEW OF THE LITERATURE

Kelsey Brunskill, Gabriel Boldt, Timothy K. Nguyen*, Alexander V. Louie, David
A. Palma

University of Western Ontario, London, ON

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EPID-BASED IN VIVO DOSIMETRY SYSTEM FOR SBRT-VMAT: MEASURED
VERSUS PLANNED DOSE

Peter M McCowan¹, Timothy van Beek², Eirc vanUytven², Jim Butler², Shaun K
Loewen¹, Maged Nashed², Harvey Quon², Boyd McCurdy¹

¹University of Manitoba, Winnipeg, MB

²CancerCare Manitoba, Winnipeg, MB

Oral Session 2 – Survivorship, Population Science and Health Services
Conservatory

Moderator: Shaun Loewen

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

- Describe important aspects of quality of life and survivorship in patients with different types of cancer ;
- Assess the impact of staging and limitations in the access radiotherapy on cost-effectiveness.

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PREFERENCES FOR THE PROVISION OF SMOKING CESSATION
EDUCATION AMONG CANCER PATIENTS

Lorna Sampson¹, Janet Papadakos¹, Victoria Milne¹, Lisa Le¹, Geoffrey Liu¹,
Nazek Abdelmutti¹, Robin Milne¹, David Goldstein², Lawson Eng², Meredith
Giuliani¹

¹Princess Margaret Cancer Centre, Toronto, ON

²University of Toronto, Toronto, ON

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INTERVENTIONS TO ADDRESS SEXUAL PROBLEMS IN PEOPLE WITH
CANCER

Lisa Barbera¹, Caroline Zwaal², Dean Elterman³, Wendy Wolfman⁴, A Katz⁵,
Kathy McPherson⁶, Andrew Matthew⁷

¹Odette Cancer Centre, Toronto, ON

²McMaster University, Hamilton, ON

³University Health Network, Toronto, ON

⁴Mt Sinai Hospital, Toronto, ON

⁵CancerCare Manitoba, Winnipeg, MB

⁶CancerCare Ontario, Toronto, ON

⁷Univeristy Health Network, Toronto, ON

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QUALITY OF LIFE IN ELDERLY/FRAIL PATIENTS WITH GLIOBLASTOMA
MULTIFORME: RESULTS OF A RANDOMIZED PHASE III STUDY
COMPARING SHORT AND STANDARD COURSE OF RADIOTHERAPY

Elena Fidarova¹, Lucyna Kepka², Valery Sinaika³, Narendra Kumar⁴, Juliana
Matiello⁵, Darejan Lomidze⁶, Dalenda Hentati⁷, Douglas Guedes de Castro⁸,
Katarzyna Dytus-Cebulok⁹, Deepak Dinakaran¹⁰, Branislav Jeremic¹¹,
Eduardo Rosenblatt¹, Wilson Roa¹⁰

¹International Atomic Energy Agency, Vienna, Austria

²Warmia & Mazury Oncology Center, Olsztyn, Poland

³N.N. Alexandrov National Cancer Centre of Belarus, Minsk, Belarus

⁴Post Graduate Institute of Medical Education and Research, Chandigarh, India

⁵Irmandade da Santa Casa de Misericórdia de Porto Alegre, Porto Alegre, Brazil

⁶High Technology Medical Center, University Clinic, Tbilisi, Georgia

⁷Institut National de Cancer Salah Azaiz, Bab Saadoun, Tunisia

⁸AC Camargo Cancer Center, São Paulo, Brazil

⁹Maria Skłodowska-Curie Memorial Cancer Centre and Institute of Oncology,
Warsaw, Poland

¹⁰Alberta Health Services-CancerControl, Edmonton, AB

¹¹Institutski put 4, Sremska Kamenica, Yugoslavia

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INAPPROPRIATE STAGING EXAMINATIONS IN EARLY STAGE BREAST
CANCER: COSTS TO THE QUEBEC GOVERNMENT

Tarek Hijal, Sidratul Rahman, Hatim Al Marzouki, Hanadi Habibullah, Carolyn
Freeman, Benoit Gallix

McGill University Health Centre, Montréal, QC

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GLOBAL ACCESS TO RADIOTHERAPY FOR CERVICAL CANCER: THE COST OF INACTION

Danielle Rodin¹, Timothy P. Hanna², Emily Burger³, Eduardo Zubizarreta⁴, Mei Ling Yap⁵, Michael Barton⁵, Rifat Atun³, Felicia Knaul⁶, Jacob Van Dyk⁷, Yolande Lievens⁸, Mary Gospodarowicz⁹, David Jaffray⁹, Michael Milosevic⁹

¹University of Toronto
²University of Toronto, Toronto, ON

³Cancer Research Institute, Queen's University, Kingston, ON

⁴Harvard T.H. Chan School of Public Health, Boston, MA

⁵International Atomic Energy Agency, Vienna, Austria

⁶University of South Wales, Liverpool, Australia

⁷University of Miami, Miami, FL

⁸University of Western Ontario, London, ON

⁹Ghent University Hospital, Ghent, Belgium

⁹Princess Margaret Cancer Centre, Toronto, ON

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UTILIZATION OF EMERGENCY DEPARTMENTS AMONG PATIENTS WITH CANCER

Harvey Quon¹, Mark Smith², Lisa Lix², Jane Griffith¹, Heather Prior², Say Hong², Ankona Banerjee², Ina Koseva², Christina Kulbaba²

¹CancerCare Manitoba, Winnipeg, MB

²Manitoba Centre for Health Policy, Winnipeg, MB

Oral Session 3 – Gyne, Breast Cancer

Alhambra Room

Moderator: Alan Nichol

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

- Recognize important aspects of radiation treatment of gynecological malignancies;
- Review current practices and outcomes of radiation therapy for breast tumours.

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POSTOPERATIVE "MINIPELVIS" RADIOTHERAPY WITH OR WITHOUT VAGINAL VAULT BRACHYTHERAPY BOOST FOR STAGE II ENDOMETRIAL CANCER

Kim Paulson, Natalie Logie, Fleur Huang, Robert Pearcey, Sunita Ghosh, Brad Murray, Geetha Menon, Ericka Wiebe

University of Alberta, Edmonton, AB

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CURRENT PRACTICE OF BRACHYTHERAPY AND EXTERNAL BEAM RADIOTHERAPY FOR CERVICAL CANCER IN ONTARIO, CANADA

Negin Shahid¹, Timothy Craig¹, Mary Westerland², Allison Ashworth², Michelle Ang³, David D'Souza⁴, Raxa Sankrecha⁵, Anthony Fyles¹, Michael Milosevic¹, Iwa Kong⁶

¹University of Toronto, Toronto, ON

²Cancer Centre of Southeastern Ontario, Kingston, ON

³Cancer Care Ontario, Toronto, ON

⁴University of Western Ontario, London, ON

⁵Trillium Health Partners, Mississauga, ON

⁶McMaster University, Hamilton, ON

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FEASIBILITY OF COLLECTING PATIENT REPORTED OUTCOMES FOR PATIENTS RECEIVING CURATIVE INTENT RT FOR GYNECOLOGICAL MALIGNANCIES

Robert Olson¹, Caroline Holloway², Christina Parson³, Peter Lim², Vincent Lapointe⁴, Sheri Lomas⁴, Gale Bowering⁵, Francois Bachand⁶

¹British Columbia Cancer Agency - Centre for the North, Prince George, BC

²University of British Columbia, Victoria, BC

³University of British Columbia, Vancouver, BC

⁴British Columbia Cancer Agency, Vancouver, BC

⁵British Columbia Cancer Agency, Abbotsford, BC

⁶University of British Columbia, Kelowna, BC

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DO YOUNG WOMEN BENEFIT FROM BREAST BOOST RADIOTHERAPY IN THE HORMONE THERAPY ERA?

Laura Beaton¹, Elisa Chan², Scott Tyldesley², Lovedeep Gondara², Caroline Speers², Alan Nichol²

¹University of British Columbia, Vancouver, BC

²British Columbia Cancer Agency, Vancouver, BC

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DOES DEEP INSPIRATION BREATH HOLD (DIBH) PRODUCE A CLINICALLY MEANINGFUL REDUCTION IN IPSILATERAL LUNG DOSE DURING LOCO-REGIONAL RADIATION THERAPY (RT) FOR WOMEN WITH RIGHT-SIDED BREAST CANCER?

Jessica L Conway¹, Leigh Conroy², Lindsay Harper¹, Marie Scheifele¹, Wendy Smith², Tannis Graham¹, Tien Phan¹, Ivo A Olivotto²

¹Tom Baker Cancer Centre, Calgary, AB

²University of Calgary, Calgary, AB

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LOCAL CONTROL IN YOUNG WOMEN WITH EARLY-STAGE BREAST CANCER TREATED WITH HYPOFRACTIONATED WHOLE BREAST RADIOTHERAPY

Kathy Rock, Sylvia Ng*, Shaheena Bashir, Anne Koch

University of Toronto, Toronto, ON

12:45-2:45

Lunch

Industry Symposium

Committee Meetings

2:45-3:45

Oral Session 4 – Head and Neck

Cascade Ballroom

Moderator:

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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POPULATION-BASED ASSESSMENT OF RELATIONSHIP BETWEEN
VOLUME OF PRACTICE AND OUTCOMES IN HEAD AND NECK CANCER
PATIENTS

Mary McLay¹, Adrienne Stedford¹, Emily Yurkowski², Scott Matlock¹, Robert Olson¹

¹University of British Columbia, Vancouver, BC

²University of Northern British Columbia, Prince George, BC

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IMPACT OF LYMPH NODE DENSITY ON DISTANT METASTASIS AND
SURVIVAL IN RESECTED ORAL CAVITY SQUAMOUS CELL CARCINOMA

Ali Hosni, David Goldstein, Shao Hui Huang, Wei Xu, Yuyao Song, Andrew Bayley, Scott V. Bratman, John Cho, Meredith Giuliani, John Kim, Jolie Ringash, John Waldron, Patrick J. Gullane, Ralph W. Gilbert, Jonathan C. Irish, Brian O'Sullivan, Andrew Hope

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

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CAN INTRATREATMENT PET CT-BASED ADAPTIVE RADIOTHERAPY
REDUCE TREATMENT MARGINS IN HEAD AND NECK CANCERS?

Georges Farha, Lee Chin, Amanpreet Dhillon, Stephanie Lim-Reinders, Jidney Cifuentes Gaitan, Tatiana Conrad, Drew Brotherston, Curtis Caldwell, Justin Lee, Irene Karam, Ian Poon

University of Toronto, Toronto, ON

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DID THE ADDITION OF CHEMOTHERAPY TO CONVENTIONAL
RADIOTHERAPY IMPROVE OUTCOMES IN TREATMENT OF OROPHARYNX
CANCER IN ONTARIO CANADA – A MARKER-TREATMENT INTERACTION
STUDY?

Stephen Hall¹, Fei-Fei Liu², Brian O'Sullivan², Patti Groome¹, Willa Shi²

¹Queen's University, Kingston, ON

²University of Toronto, Toronto, ON

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IMPACT OF TUMOUR VOLUME AND THE SURROGATE EFFECT OF LYMPH
NODE LOCATION ON THE RISK OF DISTANT METASTASIS IN
NASOPHARYNGEAL CANCER

Shrinivas Rathod, Shao Hui Huang, Jie Su, John Kim, John Waldron, Andrew Bayley, John Cho, Meredith Giuliani, Andrew Hope, Jolie Ringash, Aaron Hansen, David Goldstein, Li Tong, Wei Xu, Brian O'Sullivan

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

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REDUCTION IN RADIOTHERAPY DOSE TO THE SUBMANDIBULAR GLAND
IN PATIENTS WITH ORAL CAVITY CANCER USING A NOVEL SURGICAL
TECHNIQUE AND IMRT

Sarah Baker, Jeffson Chung, Han Zhang, Scott Murray, Youness Elkhaldy, Hani Almarzouki, Naresh Jha, Brock Debenham, Hadi Seikaly, Rufus Scrimger

University of Alberta, Edmonton, AB

Oral Session 5 – Basic Science
Conservatory
Moderator: Corinne Doll

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

- Describe relevant biomarkers for efficacy and toxicity of cancer therapy;.
- Understand the use of molecular discoveries in the development of new therapies in Oncology.

25 CARO FELLOWSHIP

THE BIOLOGICAL ROLE AND CLINICAL SIGNIFICANCE OF LONG NON-CODING RNA UROTHELIAL CARCINOMA ASSOCIATED 1 (UCA1) IN PROSTATE CANCER (PCA)

Alireza Fotouhi Ghiam¹, Samira Taeb¹, Xiaoyong Huang¹, Sahar Jahangiri¹, Jessica Ray¹, Christianne Hoey¹, Emmanouil Fokas Fokas², Danny Vesprini¹, Robert Bristow¹, Paul Boutros¹, Stanley Liu¹

¹University of Toronto, Toronto, ON

²University of Oxford, Oxford, Oxfordshire, United Kingdom

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URINARY CYTOKINES/CHEMOKINES PATTERN AFTER MAGNETIC RESONANCE- GUIDED HIGH INTENSITY FOCUSED ULTRASOUND FOR PALLIATIVE TREATMENT OF PAINFUL BONE METASTASES

Ahmad Bushehri¹, Gregory Czarnota¹, Liying Zhang¹, Kullervo Hynynen¹, Yuexi Huang¹, Michael Chan¹, Kristopher Dennis², William Chu¹, Charles Mougenot³, Edward Chow¹, Jennifer Coccagna¹, Arjun Sahgal¹, Carlo DeAngelis¹

¹University of Toronto, Toronto, ON

²University of Ottawa, Ottawa, ON

³Philips Healthcare, Toronto, ON

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UTILIZING METABOLIC ALTERATIONS INDUCED BY ADIPOSE DERIVED STROMAL CELLS TO IDENTIFY NOVEL DRUGS FOR THE TREATMENT OF RADIATION FIBROSIS

Fei-Fei Liu, Princess Margaret Cancer Centre, Toronto, ON

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MUTATIONAL SPECTRUM OF ANAL CANCERS FROM PATIENTS TREATED WITH RADICAL CHEMORADIOTHERAPY

Peter Mathen¹, John B McIntyre², Gloria Roldan-Urgoiti¹, Alan Box¹, Angela Chan², Martin Kobel¹, Kurian Joseph³, Corinne M Doll¹

¹University of Calgary, Calgary, AB

²Tom Baker Cancer Centre, Calgary, AB

³University of Alberta, Edmonton, AB

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COMPUTER-ASSISTED IMAGE ANALYSIS OF AN ORAL CAVITY SQUAMOUS CELL CARCINOMA TISSUE MICROARRAY

Sangjune Lee, Michael Cabanero, Martin Hyrcza, Marcus Butler, Fei-Fei Liu, Aaron Hansen, Shao Hui Huang, Ming Tsao, Yuyao Song, Wei Xu, David Goldstein, Ilan Weinreb, Scott Bratman

University of Toronto, Toronto, ON

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EGFR MUTATIONS AND METABOLIC UPTAKE IN ADVANCED NON-SMALL CELL LUNG CANCER

Fred Hsu¹, Ted Toriumi¹, David Anderson¹, Alex De Caluwe²

¹British Columbia Cancer Agency, Abbotsford, BC

²Jules Bordet Institute, Brussels, Belgium

Oral Session 6 – Brachytherapy, Genitourinary Cancer

Alhambra Room

Moderator: Marc Gaudet, Scott Tyldesley

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

- Understand modern approaches in the treatment of esophageal and genitourinary tumours using brachytherapy;
- Discuss risk stratification, quality of life, and current practice of treatment of prostate cancer.

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LESSONS LEARNED IN CONVERTING FROM LDR TO HDR PENILE BRACHYTHERAPY

Juanita Crook¹, Mira Keyes², Rustom Dubash², Deidre Batchelar¹

¹University of British Columbia, Kelowna, BC

²University of British Columbia, Vancouver, BC

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MULTICENTRE CANADIAN EXPERIENCE USING INTRAOPERATIVE PROSTATE BRACHYTHERAPY FOR TREATMENT OF LOW AND INTERMEDIATE RISK PROSTATE CANCER; AN EVALUATION OF LONG-TERM BIOCHEMICAL RELAPSE FREE SURVIVAL OUTCOMES

Kevin Martell¹, Siraj Husain¹, Daniel Taussky², Philippe Després³, Steve

Angyalfi¹, Guila Delouya², Andre-Guy Martin³, Eric Vigneault³

¹University of Calgary, Calgary, AB

²Université de Montréal, Montréal, QC

³Université de Laval, Quebec City, QC

31

BRACHYTHERAPY AS A SOLE TREATMENT MODALITY FOR EARLY ESOPHAGEAL CANCER (EEC)

Nhu-Tram Nguyen, Emilia Timotin, Robert Hunter, Ranjan K Sur

McMaster University, Hamilton, ON

34 ACURA

COMPARISON OF EXISTING RISK STRATIFICATION TOOLS FOR LOCALIZED PROSTATE CANCER

David Tiberi¹, George Rodrigues², Tom Pickles³, W James Morris³, Juanita Crook³, André-Guy Martin⁴, Fabio Cury⁵, Charles Catton⁶, Himu Lukka⁷,

Andrew Warner², Daniel Taussky⁵

¹Université de Montréal, Montréal, QC

²University of Western Ontario, London, ON

³University of British Columbia, Vancouver, BC

⁴Université Laval, Québec, QC

⁵McGill University, Montréal, QC

⁶University of Toronto, Toronto, ON

⁷McMaster University, Hamilton, ON

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A MULTICENTRE MIXED-METHODS EVALUATION OF THE EXPANDED PROSTATE CANCER INDEX COMPOSITE FOR CLINICAL PRACTICE (EPIC-CP) AS A PATIENT-REPORTED ASSESSMENT TOOL IN MEN WITH EARLY-STAGE PROSTATE CANCER

Michael Brundage¹, Doris Howell², Sarah Stevens³, Farzana Haji³, Zahra Ismail³, Maria Rugg⁴, Colleen Graham⁵, Alyssa Macedo², Tracie Hanna¹, Andrew Matthew²

¹Cancer Centre of Southern Ontario, Queen's University, Kingston, ON

²Princess Margaret Cancer Centre, Toronto, ON

³CancerCare Ontario, Toronto, ON

⁴Carlo Fidani Regional Cancer Program, Peel, ON

⁵Waterloo Wellington Regional Cancer Program, Waterloo, ON

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INCREASING USE OF ACTIVE SURVEILLANCE AMONGST RADIATION ONCOLOGISTS IN CANADA

Jordan Stosky, Kevin Martell, Siraj Husain, Michael Peacock
University of Calgary, Calgary, AB

3:45-4:45

Fellow Competition

Cascade Ballroom

Moderator: Ivo Olivotto

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

- Review Canadian Radiation Oncology Fellows Research Projects.

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RESULTS OF A PHASE I/II TRIAL OF 5 FRACTION STEREOTACTIC RADIOSURGERY WITH CONCURRENT AND ADJUVANT TEMOZOLOMIDE IN NEWLY DIAGNOSED SUPRATENTORIAL GLIOBLASTOMA MULTIFORME

Melissa Azoulay¹, Dylann Fujimoto¹, Leslie Modlin¹, Clement Ho¹, Iris Gibbs¹, Steven L. Hancock¹, Gordon Li¹, Steven D. Chang¹, John R. Adler¹, Griffith R. Harsh¹, Ciara Harraher¹, Seema Nagpal¹, Reena Thomas¹, Lawrence Vreacht¹, Clara Choi², Scott G. Soltys¹

¹Stanford University School of Medicine, Stanford, CA

²Santa Clara Valley Medical Center, San Jose, CA

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IS FOLEY CATHETER AN ADEQUATE SURROGATE FOR URETHRA WHEN PLANNING HIGH-DOSE-RATE PROSTATE BRACHYTHERAPY?

Audrey Tetreault-Laflamme, Cynthia Araujo, Francois Bachand, Matthew Schmid, Deidre Batchelar, Juanita Crook

British Columbia Cancer Agency, Kelowna, BC

39 ACURA

LONG-TERM OUTCOMES OF A PHASE II TRIAL OF MODERATE HYPOFRACTIONATED IMAGE-GUIDED INTENSITY MODULATED RADIOTHERAPY (IG-IMRT) FOR LOCALIZED PROSTATE CANCER

Hester Lieng¹, Melania Pintilie², Alejandro Berlin¹, Andrew Bayley¹, Robert Bristow¹, Peter Chung¹, Mary Gospodarowicz¹, Cynthia Menard³, Pdraig Warde¹, Charles Catton¹

¹University of Toronto, Toronto, ON

²Princess Margaret Cancer Centre, Toronto, ON

³Universite de Montreal, Toronto, ON

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RADIATION PNEUMONITIS IN PATIENTS WITH INTERSTITIAL LUNG DISEASE TREATED WITH LUNG STEREOTACTIC RADIATION THERAPY
Daniel Glick¹, Stephen Lyen¹, Lisa Le², Patricia Lindsay¹, Olive Wong¹, Andrea Bezjak¹, Anthony Brade¹, John Cho¹, Andrew Hope¹, Alex Sun¹, Shane Shapera¹, Sonja Kandel¹, Meredith Giuliani¹

¹University of Toronto, Toronto, ON

²Princess Margaret Cancer Centre, Toronto, ON

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EVALUATION OF AN AUTOMATED DEFORMABLE REGISTRATION ALGORITHM FOR MRI-GUIDED FOCAL BOOST INTEGRATED WITH ULTRASOUND-BASED HIGH DOSE-RATE BRACHYTHERAPY IN THE TREATMENT OF PROSTATE CANCER

Joelle Helou, Amir Khojaste, Niranjana Venugopal, Andrew Loblaw, Gerard Morton, Hans Chung, Laura D'Alimonte, Ananth Ravi

University of Toronto, Toronto, ON

42 CARO FELLOWSHIP

STAYING ON TARGET: OPTIMIZING UTILIZATION OF PRECISION RADIOTHERAPY

Jean-Marc Bourque

4:45-6:00 Annual General Meeting (members only)
Cascade Ballroom

6:00-7:00 Poster Viewing/Exhibitor Showcase
Riverview Lounge/Alberta/NB

7:00-8:30 Welcome Reception
Riverview Lounge/Alberta/NB

CARO 30 Celebration/Past Presidents

Friday September 16, 2016

7:30-8:30 Registration and Breakfast
Mezzanine II – Curio Foyer

8:30-8:45 Welcome and Introductions
Cascade Ballroom

8:45-9:45 Gordon Richards Lecture
Moderator: Matthew Parliament

Aiming for Cure
Robert Pearcey

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

- To be aware of the physics and engineering issues to overcome when imaging with MRI simultaneously with linear accelerator treatment.
- To be aware of the dosimetry and treatment planning issues. Early radiobiological studies. Potential for clinical applications and advantage.

9:45-10:45 Resident Competition
Moderator: Michael Barton

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

- Review Canadian Radiation Oncology Resident Research Projects.

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PHASE I-II ON THE USE OF DUAL-ENERGY COMPUTED TOMOGRAPHY (DECT) FOR ASSESSMENT OF DIFFERENTIAL PULMONARY FUNCTION IN RADIOTHERAPY PLANNING

Houda Bahig, Marie-Pierre Campeau, David Roberge, Andréanne Lapointe, Bedwani Stephane, Toni Vu, Louise Lambert, Jacques de Guise, Danis Blais, Carl Chartrand-Lefebvre, Martin Lord, Pierre Del Vecchio, Edith Filion
Centre Hospitalier de l'Université de Montréal, Montreal, QC

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PREDICTING IQ AND THE RISK OF HEARING LOSS FOLLOWING PROTON VERSUS PHOTON RADIOTHERAPY FOR PEDIATRIC BRAIN TUMOUR PATIENTS

Dominique Fortin¹, Angela Ng², Derek Tsang¹, Michael Sharpe¹, Normand Laperriere¹, David Hodgson¹

¹University of Toronto, Toronto, ON

²Princess Margaret Cancer Centre, Toronto, ON

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VOLUMETRIC MODULATED ARC THERAPY OF HIGH-GRADE GLIOMAS USING 18F-FDOPA POSITRON EMISSION TOMOGRAPHY FOR DOSE PAINTING

Robert Kosztyla¹, Vitali Moiseenko², Brian Toyota³, Alan Nichol⁴

¹Tom Baker Cancer Centre, Calgary, AB

²University of California, San Diego, La Jolla, CA

³Vancouver General Hospital, Vancouver, BC

46 ACURA
FACTORS AFFECTING ACCESS TO RADIOTHERAPY FOLLOWING
PROSTATECTOMY FOR PROSTATE CANCER PATIENTS IN ONTARIO IN A
CONTEMPORARY COHORT

Chunzi Jenny Jin¹, Timothy Hanna², Earl Cook³, Qun Miao², Michael
Brundage²

¹Harvard School of Public Health, Boston, MA

²Queen's University, Kingston, ON

³Harvard T.H. Chan School of Public Health, Boston, MA

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PALLIATIVE RADIOTHERAPY FOR CHOROIDAL METASTASES: CLINICAL
OUTCOMES AND PREDICTORS OF OVERALL SURVIVAL

Ezra Hahn, Juan P. Velazquez-Martin, Sohel Somani, David Payne, John
Waldron, Hatem Krema, Rand Simpson, Normand Laperriere, Caroline Chung
University of Toronto, Toronto, ON

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REFERRAL PATTERN AND OUTCOME OF PATIENTS RECEIVING
PALLIATIVE RADIOTHERAPY TO SPINAL METASTASES BASED ON THE
SPINAL INSTABILITY NEOPLASTIC SCORE

Maryam Dosani¹, Sarah Lucas², Jordan Wong¹, Lorna Weir¹, Christina
Cumayas¹, Sheri Lomas¹, Charles Fisher¹, Scott Tyldesley¹

¹British Columbia Cancer Agency, Vancouver, BC

²British Columbia Cancer Agency, Kelowna, BC

10:45-11:30 Break/Exhibitor Showcase

11:30-12:30 Oral Session 7 – Genitourinary Cancer

Cascade Ballroom

Moderator: Juanita Crook, Charles Catton

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;
- Explain causes of death in patients treated with radiation therapy for seminoma.

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CAPRA-S PREDICTS OUTCOME FOR ADJUVANT AND SALVAGE EBRT
AFTER RADICAL PROSTATECTOMY

Guila Delouya¹, Michel Zimmerman², Abdullah M. Alenizi², Emad Rajih², Kevin
Zorn², Daniel Taussky²

¹CHUM-Hôpital Notre-Dame, Montreal, QC

²Université de Montréal, Montreal, QC

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AN EVALUATION OF COMPETING CAUSES OF DEATH IN PATIENTS
TREATED FOR SEMINOMA WITH RADIATION THERAPY

Rima Pathak¹, Scott Tyldesley², Gaurav Bahl¹

¹British Columbia Cancer Agency, Abbotsford, BC

²British Columbia Cancer Agency, Vancouver, BC

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 PREVENTIVE EFFECT OF MALVA ON URINARY TOXICITY AFTER RADIATION THERAPY IN PROSTATE CANCER PATIENTS: A MULTICENTRIC, DOUBLE-BLIND, RANDOMIZED CLINICAL TRIAL
 Amir Shahram Yousefi Kash¹, Bahram Mofid¹, Hossein Rezaeizadeh², Amir Mohammad Jaladat³, Fatemeh Atarzadeh², Reihane Moeini², Abbas Motevalian⁴, Ahmad Mosalaie³, Farshid Farhan², Afshin Rakhsha¹
¹Shahid Beheshti University of Medical Sciences, Tehran, Iran
²Tehran University of Medical Science, Tehran, Iran
³Shiraz University of Medical Sciences, Shiraz, Iran
⁴Iran University of Medical Sciences, Tehran, Iran
- 52
 CORRELATION OF MULTIPARAMETRIC MRI (MPMRI) WITH PSA IN ASSESSMENT OF RESPONSE TO COMBINED HDR PROSTATE BRACHYTHERAPY AND EXTERNAL BEAM RADIOTHERAPY FOR UPPER TIER INTERMEDIATE AND HIGH RISK PROSTATE CANCER
 Juanita Crook¹, Francois Bachand¹, Sylia Chang², Deidre Batchelar¹, Matt Schmid¹
¹University of British Columbia, Kelowna, BC
²University of British Columbia, Vancouver, BC
- 53
 ACUTE AND LATE TOXICITY IN HIGH-RISK PROSTATE CANCER PATIENTS TREATED WITH ANDROGEN SUPPRESSION AND HYPOFRACTIONATED RADIOTHERAPY (HYPORT) TO THE PROSTATE AND PELVIC NODES
 Sergio Faria¹, Mariana Petrucelli², Fabio Cury¹, Marie Duclos¹, Luis Souhami¹
¹McGill University Health Centre, Montreal, QC
²Radiation Oncology, Rio de Janeiro, Brazil
- 54 ACURA
 A POPULATION-BASED STUDY OF RADIATION THERAPY REFERRAL AND TREATMENT PRACTICES POST-PROSTATECTOMY OVER A DECADE (2003-2012)
 Chunzi Jenny Jin¹, Timothy Hanna², Earl Cook³, Qun Miao², Michael Brundage²
¹Harvard School of Public Health, Boston, MA
²Queen's University, Kingston, ON
³Harvard TH Chan School of Public Health, Boston, MA
- Oral Session 8 – Education, Gastrointestinal Cancer
 Alhambra
 Moderator: Paris-Anne Ingledew
- Objectives: At the end of this session, the participants will be able to:
- Explain the important factors impacting on the training of radiation oncologists in Canada;
 - Review important aspects associated with treatment delivery and outcomes of patients undergoing treatment for gastrointestinal cancers.
- 55
 SURVEYING THE LANDSCAPE: CONGRUENCE OF A PROVINCIAL CANCER AGENCY PATIENT EDUCATION PROGRAM WITH NATIONAL STANDARDS
 Paris-Ann Ingledew, Joy Bunsko, Angela Bedard, Pamela Dent, Lynne Ferrier, Anne Hughes, Brenda Ross, Amanda Bolderston
 British Columbia Cancer Agency, Surrey, BC

- 56
DEVELOPMENT OF A QUALITY AND SAFETY COMPETENCY CURRICULUM
FOR RADIATION ONCOLOGY RESIDENCY: AN INTERNATIONAL DELPHI
STUDY
Jenna Adleman¹, Caitlin Gillan¹, Amanda Caissie², Carol-Anne Davis², Brian
Liszewski³, Andrea McNiven¹, Meredith Giuliani¹
¹University of Toronto, Toronto, ON
²Dalhousie University, Halifax, NS
³Odette Cancer Centre, Toronto, ON
- 57
THE APPLICATION OF HUMAN FACTORS AND SYSTEM ENGINEERING IN
DETERMINING THE IMPACT OF TECHNOLOGY ON RADIATION THERAPY
SAFETY
Brian Liszewski¹, Victor, Wai Lui², Lisa Di Prospero¹
¹Odette Cancer Centre, Toronto, ON
²University of Toronto, Toronto, ON
- 58
ACUTE QUALITY OF LIFE CHANGES AFTER STEREOTACTIC ABLATIVE
RADIOTHERAPY FOR LIVER METASTASIS: A PROSPECTIVE COHORT
ANALYSIS
Joelle Helou¹, Isabelle Thibault¹, William Chu¹, Pablo Munoz¹, Darby Erler¹,
George Rodrigues², Andrew Warner², Kelvin Chan¹, Edward Chow¹, Renee
Korol¹, Melanie Davidson¹, Hans Chung¹
¹University of Toronto, Toronto, ON
²University of Western Ontario, London, ON
- 59
PATIENT SELF-ASSESSMENT OF BOWEL FUNCTION BEFORE AND AFTER
RADICAL CHEMORADIOTHERAPY FOR ANAL CANAL CANCER
Kim Paulson¹, Heather Warkentin¹, Larissa Vos¹, Keith Tankel¹, Nawaid
Usmani¹, Diane Severin¹, Tirath Nijjar¹, Dan Schiller¹, Clarence Wong², Sunita
Ghosh¹, Kurian Joseph¹
¹University of Alberta, Edmonton, AB
²Royal Alexandra Hospital, Edmonton, AB
- 60
OUTCOMES OF ESOPHAGEAL CANCER PATIENTS TREATED WITH
TRIMODALITY THERAPY IN A COMMUNITY HOSPITAL
Catherine Vanderwater¹, Edwin Chan¹, Rachel Woo¹, Charles Cho¹, Jason
Wong¹, Chris Arden², Geoff Liu³, Beibei Zhang³, Agnes Cheung¹, Alex Lee¹,
Pravin Chacko¹, Ehab Fadhel¹, Zahra Kassam³
¹Stronach Regional Cancer Centre, Newmarket, ON
²York University, Newmarket, ON
³University of Toronto, Toronto, ON

Oral Session 9 – Radiosurgery, Treatment Planning
Conservatory
Moderator: Angela Turner

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

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

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DOES EVALUATING DOSE TO CORONARY ARTERIES IMPROVE RISK ESTIMATES FOR LATE CARDIAC TOXICITY AFTER MEDIASTINAL RADIOTHERAPY FOR HODGKIN LYMPHOMA?

Ezra Hahn, Angela Ng, Shaheena Bashir, Haiyan Jiang, Richard Tsang, Alexander Sun, Mary Gospodarowicz, Sameera Ahmed, David Hodgson
University of Toronto, Toronto, ON

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STEREOTACTIC BODY RADIOTHERAPY FOR LIVER METASTASIS: IMPACT ON SYSTEMIC THERAPY?

Mohammed Aldehaim¹, Joelle Helou², Hans Chung², Darby Erler², Renee Korol², Melanie Davidson², Liying Zhang¹, William Chu²
¹Sunnybrook Health Sciences Centre, Toronto, ON
²University of Toronto, Toronto, ON

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STEREOTACTIC RADIOSURGERY (SRS) +/- WHOLE-BRAIN RADIOTHERAPY (WBRT) FOR THE TREATMENT OF BRAIN METASTASES: A PATIENT PREFERENCE STUDY

Srinivas Raman¹, Liang Zeng¹, Arjun Sahgal¹, Hany Soliman¹, May Tsao¹, Carole Wendzicki², Edward Chow¹, Simon Lo²
¹Sunnybrook Odette Cancer Centre, University of Toronto, Toronto, ON
²University Hospitals Seidman Cancer Center, Case Western Reserve University, Cleveland, USA

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OPTICAL SCANNER AND 3D PRINTER TECHNOLOGY TO MANUFACTURE RIGID BOLUS FOR RADIATION TREATMENT: AN INNOVATIVE APPROACH

Ankur Sharma¹, Arbind Dubey¹, Daniel Rickey¹, Chad Harris², David Sasaki¹, Jorge Alpuche², Jim Butler¹, Ahmet Leylek¹, Kate Johnson¹, Boyd McCurdy¹
¹University of Manitoba, Winnipeg, MB
²CancerCare Manitoba, Winnipeg, MB

65

ASSESSING THE PERFORMANCE OF DEFORMABLE IMAGE REGISTRATION FOR PELVIS

Vickie Kong, Joanne Moseley, Tim Craig, Peter Chung, Charles Catton
Princess Margaret Cancer Centre, Toronto, ON

66

RETROSPECTIVE ANALYSIS OF INTER-FRACTIONAL WEIGHT LOSS AND SETUP UNCERTAINTIES FOR HEAD AND NECK CANCER PATIENTS

Sarah Wepler, Wendy Smith, Colleen Schinkel
University of Calgary, Calgary, AB

12:30-2:30	Lunch Industry Symposium Committee Meetings
2:30-3:30	Jean Roy Lecture Cascade Ballroom Moderator: Marc Gaudet Seeds and Sensibility, Pride and Prostatectomy, SABR and Superstition, Envy and Evidence: Riding the Prostate Wave W James Morris Objectives: At the end of this session, the participants will be able to: • Understand the historical context and the role of the profit motive for the unprecedented surge in treatments for localized prostate cancer that have developed since the discovery of PSA.
3:30-4:30	Canadian Brachytherapy Group Moderator: Objectives: At the end of this session, the participants will be able to: • Recognize the most recent advances on brachytherapy research for prostate cancer; • Discuss toxicities associated with interstitial brachytherapy implants for gynecological malignancies. 67 SALVAGE I-125 LDR PROSTATE BRACHYTHERAPY REIMPLANTATION FOR LOCAL FAILURE USING INTRAOPERATIVE PLANNING Michael Peacock¹, Amandeep Taggar¹, Kevin Martell¹, Steve Angyal¹, Michael Sia², Siraj Husain¹ ¹University of Calgary, Calgary, AB ²University of British Columbia, Abbotsford, BC 68 INTERMEDIATE RISK PROSTATE CANCER, ANDROGEN DEPRIVATION THERAPY AND THE RISK OF DEATH Tom Pickles, Scott Tyldesley, Mira Keyes, W James Morris University of British Columbia, Vancouver, BC 69 ACUTE COMPLICATIONS OF PERINEAL INTERSTITIAL BRACHYTHERAPY (ISBT) IMPLANTS IN GYNECOLOGICAL CANCER PATIENTS: PROSPECTIVE ANALYSIS OF ORGAN INJURY AND INFECTION Lucas C. Mendez¹, Lisa Barbera², David D'Souza³, Laura D'Alimonte², Eric Leung^{*2} ¹University of São Paulo, São Paulo, Brazil ²University of Toronto, Toronto, ON ³University of Western Ontario, London, ON

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COMPARING RADICAL PROSTATECTOMY AND PERMANENT SEED
BRACHYTHERAPY FOR LOW AND INTERMEDIATE RISK CANCER

Guila Delouya¹, Daniel Taussky², Veronique Ouellet², Fred Saad²

¹CHUM-Hôpital Notre-Dame, Montreal, QC

²Université de Montréal, Montreal, QC

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LOW-DOSE-RATE BRACHYTHERAPY FOR LOW- AND INTERMEDIATE-RISK
PROSTATE CANCER: A DOSE-RESPONSE ANALYSIS FOR 3392

CONSECUTIVE 125-IODINE MONOTHERAPY PATIENTS

W James Morris, Ingrid Spadinger, Ross Halperin

British Columbia Cancer Agency, Vancouver, BC

72 ACURA

FOCAL SALVAGE HDR BRACHYTHERAPY FOR LOCALLY RECURRENT
PROSTATE CANCER - EARLY REPORT FROM A PROSPECTIVE STUDY

Peter Chung, Alejandro Berlin, Alexandra Rink, Marco Carlone, Andrew Bayley,
Charles Catton, Jessamine Abed, Bernadeth Lao, Gerald O'Leary, Pdraig

Warde, Robert Bristow, Cynthia Menard

Princess Margaret Cancer Centre, Toronto, ON

5:00-6:00

Pamela Catton Memorial Fun RUN/Walk for CROF

Meet at the back entrance of the hotel at 4:45pm.

8:00

Dinner and Awards Ceremony

Brewster's MountView Barbecue

Box 2606, Banff, Alberta, Canada T1L 1C3

t: (403) 762-0115

Western Style – Dress code: Denim

Transportation included, 1st bus leaves 7:15pm at front of the hotel (time is approximate)

Saturday September 17, 2016

7:00-8:30 Breakfast Industry Symposium

7:30-8:30 Committee Meetings

7:45-8:30 Registration and Breakfast
Mezzanine II - Curio Foyer

8:30-9 :30 Poster Discussion Session 1
Cascade Ballroom
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.

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IS A SHIFT IN THE STANDARD OF CARE CHEMOTHERAPY FOR PATIENTS WITH ESOPHAGEAL CANCER PRE-MATURE?

Xuan Lu Qu, Lisa Tremblay, Aamer Mahmud
Queen's University, Kingston, ON

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PRELIMINARY RESULTS FROM A PILOT STUDY ON THE ROLE OF DUAL SOURCE COMPUTED TOMOGRAPHY FOR CARDIAC SPARING IN LEFT BREAST RADIOTHERAPY

Houda Bahig, Toni Vu, Nhu Tram Nguyen, Jacques de Guise, Martin Lebeau, Carl Chartrand-Lefebvre, Danis Blais, Stephane Bedwani, David Roberge
Centre Hospitalier de l'Université de Montréal, Montreal, QC

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INNOVATIVE APPROACH FOR GENERATING SOFT SILICONE BOLUS USING 3D PRINTING FOR ELECTRON TREATMENT OF SKIN CANCERS IN AREAS WITH IRREGULAR CONTOURS

Kate Johnson¹, Arbind Dubey¹, David Sasaki¹, Daniel Rickey¹, Chad Harris², Todd Boyer², James Butler², Ahmet Leylek², Ankur Sharma², Rashmi Koul²
¹University of Manitoba, Winnipeg, MB
²CancerCare Manitoba, Winnipeg, MB

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POPULATION-BASED URINARY INTERVENTION RATES FOLLOWING INTRAOPERATIVELY PLANNED I-125 LOW DOSE RATE PROSTATE BRACHYTHERAPY

Michael Peacock¹, Kevin Martell¹, Amandeep Taggar¹, Michael Sia², Steve Angyal¹, Siraj Husain¹
¹University of Calgary, Calgary, AB
²University of British Columbia, Abbotsford, BC

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IMRT FOR VULVAR CARCINOMA: CHANGES IN PRACTICE OVER 5 YEARS

Maroie Barkati¹, Bronwyn King², Israël Fortin¹, Lorraine Portelance³, Akila Viswanathan⁴, Anthony Fyles⁵, Sushil Beriwal⁶, Joanne Alfieri⁷, Karen Lim⁸, Matthew Harkenrider⁹, William Small⁹, Ann Klopp¹⁰, Alexandra Stewart¹¹, Catheryn Yashar¹², Walter Bosch¹³, Anuja Jhingran¹⁰, Marjorie Jolicoeur¹⁴, David Gaffney¹⁵
¹Université de Montréal, Montreal, QC
²Peter MacCallum Cancer Centre, Melbourne, Victoria, Australia
³University of Miami, Miami, FL

4Harvard Medical School, Boston, MA
 5University of Toronto, Toronto, ON
 6University of Pittsburgh Cancer Institute, Pittsburgh, PA
 7McGill University, Montreal, QC
 8Liverpool Cancer Therapy Centre, Sydney, New South Wales, Australia
 9Loyola University, Chicago, IL
 10MD Anderson Cancer Center, Houston, TX
 11Royal Surrey Country Hospital, Guildford, Surrey, United Kingdom
 12University of California, San Diego, CA
 13Washington University School of Medicine, St Louis, MO
 14Université de Sherbrooke, Longueuil, QC
 15Department of Radiation Oncology, Salt lake City, UT

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A PRATICAL METRIC TO GUIDE PATIENTS SELECTION FOR BREATH-HOLD RADIATION THERAPY (BH-RT) IN LEFT-SIDED BREAST CANCER
 Lucas C. Mendez¹, Alexander V. Louie², Carolina S. Moreno³, Eric Leung⁴, Roberto K. Sakuraba³, Juliana K. Helito³, Ana C. P. Rezende³, Ícaro T. Carvalho³, Eduardo Weltman³

1University of São Paulo, São Paulo, Brazil
 2London Regional Cancer Program, London, ON
 3Hospital Israelita Albert Einstein, São Paulo, Brazil
 4Odette Cancer Centre, Toronto, ON

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SERUM EXOSOMAL MICRORNAS (MIRNAS) AS NON-INVASIVE BIOMARKERS TO GUIDE POST-OPERATIVE RADIOTHERAPY IN PROSTATE CANCER (PCA) PATIENTS TREATED WITH RADICAL PROSTATECTOMY (RP)

Alireza Fotouhi Ghiam¹, Danny Vesprini¹, Samira Taeb¹, Sahar Jahangiri¹, Xiaoyong Huang¹, Jessica Ray¹, Christianne Hoey¹, Andrew Loblaw¹, Emmanouil Fokas², Stanley K. Liu¹
 1University of Toronto, Toronto, ON
 2University of Oxford, Oxford, Oxford, United Kingdom

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PROGNOSTIC FACTORS FOR OVERALL SURVIVAL IN PATIENTS WITH ORAL CAVITY SQUAMOUS CELL CARCINOMA: RESULTS FROM A SINGLE INSTITUTION IN BRAZIL

Chunzi Jenny Jin¹, Lisa Caulley¹, Leonardo Freitas Boaventura Rios², Caio Caio Tosato Caliseo², Jorge Du Ub Kim², Alexandre Bezerra dos Santos², Pamela Oliveira Soares², Jessica Boscariol da Silva², Claudio Roberto Cernea², Rossana Verónica Mendoza López², Raquel Moyses¹
 1Harvard School of Public Health, Boston, MA
 2University of São Paulo, São Paulo, Brazil

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PLANNED VERSUS 'DELIVERED' BLADDER DOSE RECONSTRUCTED USING SOLID AND HOLLOW ORGAN MODELS DURING PROSTATE CANCER IMRT

Tara Rosewall¹, Janelle Wheat², Geoffrey Currie², Vickie Kong¹, Andrew Bayley¹, Joanne Moseley¹, Peter Chung¹, Charles Catton¹, Tim Craig¹, Michael Milosevic¹
 1Princess Margaret Cancer Centre, Toronto, ON
 2Charles Sturt University, Wagga Wagga, New South Wales, Australia

83

LATE TOXICITY AFTER TBI IN AHCT FOR RELAPSED FOLLICULAR LYMPHOMA

Steven Tisseverasinghe¹, Rajiv Samant¹, Mitchell Sabloff¹, Yuhui Xu², Christopher Bredeson¹, Lothar Huebsch¹, Paul Genest¹

¹University of Ottawa, Ottawa, ON

²Ottawa Hospital Research Institute, Ottawa, ON

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A 3D OPTICAL SCANNER FOR IMAGE ACQUISITION IN 3D PRINTING- OPTIMIZING IMAGE ACCURACY THROUGH THE DEVELOPMENT OF AN IN-HOUSE DESIGNED GANTRY

Kate Johnson¹, Arbind Dubey¹, Chad Harris², David Sasaki¹, Andy Egtberts², Daniel Rickey¹, Rashmi Koul²

¹University of Manitoba, Winnipeg, MB

²CancerCare Manitoba, Winnipeg, MB

Poster Discussion Session 2

Alhambra Room

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.

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CAN VMAT IMPROVE CONFORMALITY WHILE MAINTAINING KIDNEY DOSE FOR SEMINOMA PATIENTS

Tony Lam¹, Andrew McPartlin², Ali Hosni², Tara Rosewall², Padraig Warde², Peter Chung²

¹Princess Margaret Hospital, Toronto, ON

²University of Toronto, Toronto, ON

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USING OPTICAL SCANNER AND 3D PRINTER TECHNOLOGY TO CREATE LEAD SHIELDING FOR RADIOTHERAPY OF FACIAL SKIN CANCER WITH LOW ENERGY PHOTONS: AN EXCITING INNOVATION

Ankur Sharma, Arbind Dubey, Ahmet Leylek, Daniel Rickey, David Sasaki, Chad Harris, Jim Butler, Boyd McCurdy

University of Manitoba, Winnipeg, MB

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CAN WE REDUCE NORMAL TISSUE RADIATION EXPOSURE? – A CRANIOSPINAL IRRADIATION TECHNIQUE WITHOUT JUNCTION MATCHING USING VARIAN ECLIPSE PLATFORM

Laura Drever, Vijayananda Kundapur

Saskatoon Cancer Centre, Saskatoon, SK

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THE USE OF RESPIRATORY GATING FOR DELIVERY OF STEREOTACTIC ABLATIVE RADIOTHERAPY (SABR): IS THERE AN IMPACT ON ONCOLOGIC OUTCOMES?

Nauman Malik, Stewart Gaede, Ilma Xhaferllari, George Rodrigues, Brian Yaremko, Rashid Dar, Edward Yu, Alexander Louie, Andrew Warner, David Palma Palma

University of Western Ontario, London, ON

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TOTAL BODY IRRADIATION WITH VMAT - A FOCUS ON SCROTAL

SHIELDING

Greg Pierce, Steve Angyalfi, Alana Hudson
University of Calgary, Calgary, AB

90 ACURA

COMBINED SALICYLATE (SAL) - METFORMIN (MET) TREATMENT INDUCES
INCREASED TUMOUR SUPPRESSION AND RADIO-SENSITIZATION IN
PRECLINICAL MODELS OF PROSTATE CANCER (PRCA)

Katarina Marcinko, Linda Villani, Vanessa Houde, Paola Muti, Gregory Steinberg,
Theodoros Tsakiridis
McMaster University, Hamilton, ON

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STEREOTACTIC BODY RADIOTHERAPY FOR METASTATIC NON-SMALL
CELL LUNG CANCER: OLIGOMETASTASES, OLIGOPROGRESSION, AND
LOCAL CONTROL

Patrick Cheung¹, Tomas Merino¹, Joelle Helou¹, Ian Poon¹, Arjun Sahgal¹,
Hans Chung¹, William Chu¹, Hany Soliman¹, Sunil Verma¹, Parneet Cheema¹,
Susanna Cheng¹, Suneil Khanna¹, Darby Erler¹, Liying Zhang²
¹Sunnybrook Odette Cancer Centre, Toronto, ON
²MacroStat Inc., Toronto, ON

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IDENTIFICATION OF PATIENTS THAT WILL NOT BENEFIT FROM HEPATIC
RADIATION

Michael Lock, Laura Callan, Stewart Gaede, Jeff Cao, David D'Souza, George
Rodrigues, Jason Vickress, Eugene Wong
University of Western Ontario, London, ON

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OUTCOME OF RADIOTHERAPY FOR AGGRESSIVE FORMS OF BASAL
CELL CARCINOMA OF THE HEAD AND NECK

Anupam Rishi, Shao Hui Huang, Yuyao Song, John Waldron, Brian O'Sullivan,
Woodrow Wells, Jolie Ringash, Alex Sun, Andrew Hope, Peter Chung, Meredith
Giuliani, David Goldstein, Anna Spreafico, Li Tong, Wei Xu, Andrew Bayley
Princess Margaret Cancer Centre, University of Toronto, Toronto, ON

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LONG TERM PSA STABILITY AND PREDICTIVE FACTORS OF FAILURE
AFTER PERMANENT SEED PROSTATE BRACHYTHERAPY

Audrey Tetreault-Laflamme, Juanita Crook, Jeremy Hamm, Tom Pickles, Mira
Keyes, Michael McKenzie, Homard Pai, Francois Bachand, W James Morris
British Columbia Cancer Agency, Kelowna, BC

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CANCER INCIDENCE AND TREATMENT DISPARITIES: A PERSPECTIVE FROM MODEL ISLAND COMMUNITIES OF HAIDA GWAI IN BRITISH COLUMBIA COMPARING FIRST NATIONS (FN) AND GENERAL POPULATION

Manpreet Tiwana¹, Luke Hughson², Simran Lehal², Tracy Morton³, Bill Clifford¹, Caitlin Blewett¹, Robert Olson¹

¹British Columbia Cancer Agency, Centre for the North, Prince George, BC

²University of British Columbia, Vancouver, BC

³British Columbia Cancer Agency, Haida Gwaii Cancer Care, Queen Charlotte, BC

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DO ADVANCES IN CANCER CARE IMPACT PROGNOSIS FOR PATIENTS WITH BRAIN METASTASES? A HISTORICAL COMPARISON OF SURVIVAL AT A TERTIARY CANCER CENTRE

Jackson Wu¹, Hellen Jung², Jon-Paul Voroney², Aynharan Sinnarajah¹, John Kelly¹, Peter Craighead²

¹University of Calgary, Calgary, AB

²Tom Baker Cancer Centre, Calgary, AB

9 :45-11 :15

Workshop 1
Alhambra Room

Physician Assisted Death in Canada: Implications on Cancer Care and Clinical Oncology Practice

Jackson Wu

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

- Discuss relevant literature and past experience of physician assisted death for cancer patients from other jurisdictions;
- Give consideration to the practice of physician assisted death in Canada according to expert recommendations, institutional policies and principles of practice per regulatory bodies or by legislation;
- Reflect on his/her own comfort level and how to approach conversations with the inquiring or requesting patients and families about physician assisted death.

Workshop 2
Conservatory

Expanding Access to Radiotherapy: Developing a Global Partnership
David Jaffray

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

- Identify parameters required to determine cost of radiotherapy;
- Understand the global economic impact of investing into radiotherapy;
- Describe activities/methods that can make radiotherapy more accessible to those in lower resourced.

Workshop 3
Oak Room

Fostering Resiliency in Radiation Oncology: Preventing Compassion, Fatigue, Stress and Burnout

Chandra Martens, Cicely Bryce, Mira Keyes, Michael MacKenzie

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

- Prevent compassionate fatigue, stress and burnout;
- Learn specific techniques that they can use to help bring more balance and satisfaction to their career, their relationships and their lives.

Workshop 4
Norquay Room

A Hands-on Introduction to Partial Breast Seed Implantation (PBSI using Phantom Simulation

Tyler Myer, Juanita Crook, Siraj Husain, Michael Roumeliotis, Michelle Hilts, Deidre Batchelar, Karen Long, Ruth Karchewski-Welter, Elizabeth Watt

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

- Describe the current standard of PBSI delivery technique;
- Identify tasks commonly associated with each discipline in a PBSI treatment;
- Develop hands-on experience in PBSI implant techniques with phantom simulation.

Workshop 5
Champlain Room

Moving the Needle on Quality Improvement in Radiation Therapy: The Who, What, When, Where, Why and How

Carol-Anne Davis, Erika Brown, Michael Brundage, Amanda Caissie, Gunita Mitera

Objectives: By the end of this session, the participants will:

- Become familiar with the development of the Accreditation Canada radiation treatment (RT) standards based on the Canadian Partnership for Quality Radiotherapy (CPQR) programmatic key quality indicators (KQI);
- Provide examples of how Communities Of Practice (COP) may be used to move RT quality improvement (QI) initiatives forward in preparation for department accreditation;
- Discuss challenges, opportunities, and new ideas with other like-minded colleagues currently involved in or wishing to initiate a COP or RT QI initiative in the face of the Accreditation Canada RT to be launched February 2017.

11 :15-11 :45 Grab and Go Break

11 :45-1 :15

CARO-ESTRO Symposium
Cascade Ballroom
Moderator :

Title

Nuria Jornet, Nicolas Pourel, Michael Milosevic

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

- Provide an interactive symposium from the European and Canadian viewpoint.

1:15-2 :15

Reviewer's Choice

Moderator :

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.

97 CARO FELLOWSHIP

IMAGE GUIDED BRACHYTHERAPY IN CERVICAL CANCER: A COMPARISON BETWEEN INTRACAVITARY AND COMBINED INTRACAVITARY/INTERSTITIAL BRACHYTHERAPY IN REGARD TO DOSES TO HR CTV, OARS AND LATE MORBIDITY – EARLY RESULTS FROM THE EMBRACE STUDY IN 999 PATIENTS

Israël Fortin¹, Kari Tanderup², Christine Haie-Meder³, Jacob Christian Lindergaard², Umesh Mahantshetty⁴, Barbara Seguedin⁵, Ina M. Jürgenliemk-Schulz⁶, Peter Hoskin⁷, Christian Kirisits⁸, Richard Pötter⁸

¹Centre hospitalier de l, Montreal, QC

²Aarhus University, Aarhus, Denmark

³Institut Gustave Roussy, Paris, France

⁴Tata Memorial Hospital, Mumbai, India

⁵Institute of Oncology, Ljubljana, Slovenia

⁶University Medical Center Utrecht, Utrecht, Netherlands

⁷Mount Vernon Hospital Centre for Cancer Treatment, London, United Kingdom

⁸Vienna General Hospital (AKH), Vienna, Austria

98 ACURA

CONCOMITANT HYPOFRACTIONATED IMRT BOOST FOR LOCALIZED HIGH RISK PROSTATE CANCER: FIVE YEAR RESULTS OF A PROSPECTIVE TRIAL

Patrick Cheung¹, Gerard Morton¹, Ewa Szumacher¹, Cyril Danjoux¹, Hans Chung¹, Danny Vesprini¹, William Chu¹, Richard Choo², Andrea Deabreu¹, Liying Zhang³, Andrew Loblaw¹

¹Sunnybrook Odette Cancer Centre, Toronto, ON

²Mayo Clinic, Rochester, MN

³MacroStat Inc., Toronto, ON

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PROGNOSTIC VALUE OF PRETREATMENT SERUM LACTATE DEHYDROGENASE IN HPV-RELATED AND HPV-UNRELATED OROPHARYNGEAL CANCER

Shao Hui, Sophie Huang, Scott V Bratman, Jie Su, Li Tong, John Kim, John Waldron, Aaron Hansen, David Goldstein, Andrew Bayley, John Cho, Meredith Giuliani, Andrew Hope, Jolie Ringash, Wei Xu, Brian O'Sullivan

University of Toronto, Toronto, ON

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A PHASE III RANDOMIZED CONTROL TRIAL COMPARING SKIN SPARING

HELICAL TOMOTHERAPY TO 3D-CONFORMAL RADIOTHERAPY FOR
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