Optimizing Patient Outcomes: The Intersection of Technology and Human Touch

Program Objectives: At the end of the conference, the participants will be able to:

- demonstrate an understanding of innovative radiotherapy techniques and current evidence for use in clinical practice;
- discuss how patient- and tumour-specific factors play a role in recommended new technologies and treatment modalities;
- describe the factors that lead to inequities in cancer care delivery;
- describe the implications of implementing newer radiotherapy techniques within a center, including opportunities for education, research, and clinical practice.

**Wednesday September 28, 2022**

8:00-4:00  
**Resident Refresher Course** - Toronto Ballroom (TB) I  
Facilitator: Sarah Hamilton

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

- review the principles of management and the role of radiotherapy in sarcoma, endometrial cancer, and high risk prostate cancer;
- explore the evidence and indications for neoadjuvant radiotherapy for rectal cancer;
- develop a radiotherapy treatment plan evaluation approach.

8:00-9:00  
Registration – Convention Level

9:00-9:10  
Welcome and Introductions

9:10-10:40  
Treatment Planning Evaluation  
Jennifer Croke, Jeff Winter

10:40-11:00  
Refreshment Break

11:00-11:30  
The Role of Radiotherapy in Sarcoma  
Philip Wong

11:30-11:45  
Discussion Period
11:45-1:15
Lunch
1:15-1:45

1:15-1:45
The Role of Neoadjuvant Rectal Cancer
Will Chu

1:45-2:00
Discussion Period

2:00-2:30
Endometrial Cancer
Eric Leung

2:30-2:45
Discussion Period

2:45-3:05
Refreshment Break

3:05-3:35
High Risk/Locally Advanced Prostate Cancer
Peter Chung

3:35-3:50
Discussion Period

3:50-4:00
Closing Remarks
Sarah Hamilton

5:00-6:00
Resident Career Counselling Social - 2nd floor Bridge Foyer

6:00-8:00
CROF Meet and Greet – 2nd floor Bridge Foyer

6:00-9:00
CARO Board Meeting
Governor General, 2nd floor
Thursday September 29, 2022 - Convention Level

7:00-8:00
Registration and Breakfast
Exhibit Hall

8:00-8:15
Welcome and Introductions - TB I/II/III
Jennifer Croke
Jolie Ringash

8:15-9:45
Theme Symposium - TB I/II/III
High Tech, High Touch: The Heart of Radiation Medicine
Moderators: David Roberge, Teri Stuckless

Objectives: By the end of this symposium, the participants will be able to:
• Understand the factors shaping the experience of individuals diagnosed with cancer as they navigate radiation treatment.
• Identify evaluative approaches and research opportunities to assess the impact of new treatment technologies and technologies on patient outcomes.
• Explore novel methods for delivering radiotherapy and training future radiation health professionals.

8:15-8:25
Patient Perspective
Louise Bird

8:25-8:40
Clinical Implementation Perspective
Joshua Giambattista

8:40-8:55
Evaluation Perspective (Research Opportunities)
Cynthia Menard

8:55-9:10
Education Perspective
Mikki Campbell

9:10-9:45 - Discussion

9:45-10:30
Refreshment Break
Exhibit Hall
How to Build a Journal: Scientific Publishing Challenges in the 2020s

Sue Yom

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

- Name three major trends that are rapidly changing current scientific publishing.
- List at least three metrics to evaluate a scientific journal’s performance.
- Describe three ways scientific publishing can enhance diversity and inclusion.

11:15-11:30
Question & Answer Period

11:30-12:30
Resident Competition - TB I/II/III
Moderator: Sue Yom

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

- Discover the top ranked resident research projects in radiation oncology across Canada
- Describe the latest radiation oncology research taking place in Canada by radiation oncology residents

2
IMPACT OF MGMT PROMOTER METHYLATION STATUS ON TUMOUR DYNAMICS DURING WEEKLY ADAPTIVE RADIOTHERAPY FOR GliOBLASTOMA
John M. Hudson, James Stewart, K. Liang Zeng, Hanbo Chen, Mark Ruschin, Hany Soliman, Sten Myrehaug, Zain Husain, Arjun Sahgal, Jay Detsky
University of Toronto, Toronto, ON

3
ASSESSING TREATMENT RESPONSE AFTER LUNG SABR: AN EVALUATION OF THE PREDICTIVE VALUE OF RECIST CRITERIA
Stephanie Gulstene, Pencilla Lang, Melody Qu, Joanna Laba, Brian Yaremko, George Rodrigues, Edward Yu, Andrew Warner, David Palma
Western University, London, ON

4
A PHASE II TRIAL OF CONCURRENT SUUNITINIB, TEMOZOLOMIDE AND RADIATION THERAPY FOLLOWED BY ADJUVANT TEMOZOLOMIDE FOR NEWLY DIAGNOSED GliOBLASTOMA PATIENTS WITH AN UNMETHYLATED MGMT GENE PROMOTER (A01-M121-11A, MCG1132)
Mame Daro Faye1, Siham Sabri1, Paula De Robles2, Jacob Easaw2, Raman Agnihotram1, Alexander Torres-Vasquez1, Valerie Panet-Raymond1, George Shenouda1, Luis Souhami1, Bassam Abdulkarim1
1McGill University Health Centre, Montreal, QC
2Tom Baker Cancer Centre, Calgary, AB
LONG TERM TOXICITIES OF ADOLESCENT AND YOUNG ADULT SURVIVORS OF CERVIX CANCER WHO UNDERWENT RADIATION THERAPY: A CROSS-SECTIONAL ANALYSIS
Andrew Pritchard1, Sarah Hamilton1, Iwa Kong1, Peter Lim1, Karen Goddard1, Anna Tinker1, Melanie Altas2
1British Columbia Cancer Agency, Vancouver, BC
2Univeristy of British Columbia, Vancouver, BC

SAFETY AND EFFICACY OF STEREOTACTIC BODY RADIOTHERAPY FOR ULTRA-CENTRAL THORACIC TUMOURS
George J. Li1, Hendrick Tan2, Humza Nusrat3, Hanbo Chen3, Joe Chang4, Jeevin Shahi5, Ian Poon3, May Tsao3, Yee C. Ung3, Patrick Cheung3, Alexander V. Louie3
1University of Toronto, Toronto, ON
2GenesisCare, Perth, AU
3Sunnybrook-Odette Cancer Centre, Toronto, ON
4Liverpool Hospital, Liverpool, UK
5Saint Louis University School of Medicine, St. Louis, MO

RATES OF REGIONAL RADIOTHERAPY RECEIPT OVER TIME IN LOW-RISK, NODE POSITIVE BREAST CANCER
Daegan Sit1, Nafisha Lalani1, Elisa Chan1, Eric Tran1, Caroline Speers2, Lovedeep Gondara2, Stephen Chia1, Karen Gelmon1, Caroline Lohrisch1, Alan Nichol1
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC

12:30-2:30
Lunch
Industry Symposium - Governor General, 2nd fl
Visit Exhibit Hall
Committee Meetings - tbd

12:45-1:45
Women in Radiation Medicine - Carmichael Jackson
The “Golden Joinery”- Seeing Beauty in the Flawed and Imperfect
Mira Keyes

Objectives: By the end of this session, the participants will be able to:
• Describe the imperfections of knowledge.
• Describe what we may be called to learn.
• Outline the power of questions.
Oral Session 1 – Population Science - TB 1
Moderators:

Objectives: By the end of this session, the participants will be able to:
- Describe the latest research taking place in population science, including new consensus recommendations, patterns of care research and health economics.

8
FIRST PAN-CANADIAN CONSENSUS RECOMMENDATIONS FOR PROTON BEAM THERAPY ACCESS IN CANADA
Gunita Mitera
University of Toronto, Toronto, ON

9
TRENDS IN RADIOTHERAPY FRACTIONATION IN ONTARIO FROM 2011/12 TO 2020/21 FOR THE MAJOR DISEASE SITES AND THE IMPACT OF COVID19
Jonathan Wang1, Audrey Wong1, Brian Liszewski1, Eric Gutierrez1, Sophie Foxcroft1, Jason Pantarotto2
1Ontario Health, Toronto, ON
2University of Ottawa, Ottawa, ON

10
COST MINIMIZATION ANALYSIS OF CONVENTIONAL VERSUS SHORT-COURSE RADIOTHERAPY WITH TEMOZOLOMIDE FOR NON-ELDERLY PATIENTS WITH NEWLY DIAGNOSED GLIOBLASTOMA
Jordan Hill1, Samir Patel1, Michael Zhu1, Tanner Steed1, Mustafa Al Balushi1, Conley Kriegler, Yugmel Nijjar, Eldon Spackman2
1University of Alberta, Edmonton, AB
2University of Calgary, Calgary, AB

11
HEALTH-ECONOMICS AND EVIDENCE-BASED HYPOFRACTIONATION: A EUROPEAN CLUSTER ANALYSIS WITH RELEVANCE TO NORTH AMERICA
Danielle Rodin1, Josep M Borras2, Yolande Lievens3, Carol Oliveira4, Ramon Clèries2, Julieta Corral2
1University of Toronto, Toronto, ON
2University of Barcelona, Barcelona, SP
3Ghent University, Ghent, BE
4Queen's University, Kingston, ON

12
TUMOUR AND PATIENT FACTORS INFLUENCING THE USE OF ADJUVANT RADIOTHERAPY IN LOCALLY ADVANCED HEAD AND NECK CANCER
Marc Gaudet1, Jean-Marc Bourque2, Matthew Beckett1, Kristopher Dennis1, May Abdel-Wahab3,
1University of Ottawa, Ottawa, ON
2Centre Hospitalier de l’Université de Montréal, Montreal, QC
3International Atomic Energy Agency, Vienna, AT
2:30-3:30
**Oral Session 2 – Applied Physics and Technology** - TB II/III

Moderators:

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

- Discuss the latest in applied physics taking place within radiation oncology.
- Discuss the latest technology research, including artificial intelligence and machine learning, taking place within Canada.

13
**PHOTON VERSUS PROTON WHOLE VENTRICULAR RADIOTHERAPY FOR INTRACRANIAL NON-GERMINOMATOUS GERM CELL TUMOURS - A REPORT FROM THE CHILDREN'S ONCOLOGY GROUP**

Zain Siddiqui1, David Mak2, Zhihui Amy Liu2, Hitesh Dama2, Shengjie Wu4, Shannon M. MacDonald3, Erin S. Murphy5, Matthew Hall6, Victor Malkov2, Arzu Onar-Thomas4, Sameera Ahmed2, Girish Dhall7, Derek S. Tsang8
1Queen's University, Kingston, ON
2Princess Margaret Cancer Centre, Toronto, ON
3Massachusetts General Hospital, Boston, MA
4St. Jude Children's Research Hospital, Memphis, TN
5Cleveland Clinic, Cleveland, OH
6Miami Cancer Institute, Miami, FL
7Children's of Alabama, Birmingham, AL
8Hospital for Sick Children, Toronto, ON

14
**KNOWLEDGE-BASED PLANNING TO IMPROVE AND AUTOMATE PATIENT-SPECIFIC QUALITY ASSURANCE PROCEDURES IN CLINICAL TRIALS - UPDATED SECONDARY ANALYSIS OF CCTG HN6**

Srinivas Raman1, Wendy Parulekar2, Carrie-Lynne Swift1, Robert Kosztyla1, Jolie Ringash3, John Waldron3, Alysa Fairchild4, Alexander Montenegro2, Ulin Kenneth5, Timothy Fitzgerald5, Alan Nichol1
1BC Cancer, Vancouver, BC
2Queen's University, Kingston, ON
3Princess Margaret Cancer Centre, Toronto, ON
4University of Alberta, Edmonton, AB
5University of Massachusetts, Lincoln, RI

15
**A COMPARISON OF THREE DIFFERENT BREATH HOLD TECHNIQUES USED FOR REDUCING CARDIAC DOSE FOR PATIENTS RECEIVING LEFT-SIDED BREAST CANCER RADIATION THERAPY**

Anh Hoang1, Matt Wronski2, Merrylee McGuffin2, Nelly Kager2, Aaron Cumal2, Dilshad Nathoo2, Ruby Bola2, Danny Vesprini2, Anthony Kim2, Claire McCann2, Brian Keller2, Aisha Sheikh2, Francois Gallant2, Brian Liszewska2, Irene Karam2
1Sunnybrook Health Sciences Centre, Toronto, ON
2University of Toronto, Toronto, ON
RADCURE: A LARGE OPEN SOURCE HEAD AND NECK RADIATION THERAPY DATASET FOR DATA SCIENCE
Andrew Hope1 Mattea Welch2, Scott Bratman1, The Head and Neck Site Group2, John Waldron1, Brian O'Sullivan1, Tirth Patel2, Katrina Rey-McIntyre2, Sejin Kim1, Joseph Marsilla1, Zhibin Lu2, Michal Kazmierski2, Shao Hui Huang1, Benjamin Haibe-Kains1, Tony Tadic2
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON

INITIAL ASSESSMENT OF A COMMERCIAL AUTO-SEGMENTATION SOFTWARE BASED ON DEEP-LEARNING MODELS IN THE CONTEXT OF ARTIFICIAL INTELLIGENCE-ASSISTED RADIATION TREATMENT PLANNING
Ming Pan, Luc Serre, John Agapito, Junaid Yousuf, Khalid Hirmiz, Caitria Michie, Lynn Brown
Western University, Windsor, ON

A RANDOMIZED BLINDED ASSESSMENT OF A MACHINE LEARNING BASED AUTOCONTOURING TOOL FOR BREAST CANCER RADIOTHERAPY COMPARED TO PEER-REVIEWED RADIATION ONCOLOGIST CONTOURS
Michael Kucharczyk1, Krista Chytyk-Praznik1, Joshua Giambattista2, Carter Kolbeck3, Nick Chng4, Gopal Bala3, James Robar1, Andrew Beam5
1Dalhousie University, Halifax, NS
2University of Saskatchewan, Regina, SK
3AI Limbus, Toronto, ON
4British Columbia Cancer Agency, Prince George, BC
5Harvard T. H. Chan School of Public Health, Boston, MA

Poster Discussion 1- TB I
Moderators:

Objectives: By the end of this session, the participants will be able to:
- Discover ongoing radiation oncology research taking place across a variety of areas.

ELIMINATING TATTOOS FOR SHORT COURSE PALLIATIVE RADIOTHERAPY: SET-UP ERROR, SATISFACTION AND COST
Tara Rosewall, Joanna Javor2, Angela Cashell2, Carina Feuz2, Edward Taylor1, Aisling Barry1
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON

DOES A SUBSPECIALTY GYNECOLOGIC PATHOLOGY REVIEW CHANGE MANAGEMENT OF ENDOMETRIAL CANCER PATIENTS: A BC CANCER- VICTORIA EXPERIENCE
Jennifer Rauw1 Caroline Holloway1, Heather Lockyear2, Celine Laumont1, Julie Irving1, Joyce Leo1
61
THE NON-OPERATIVE MANAGEMENT USING SBRT FOR TECHNICALLY RESECTABLE, BUT MEDICALLY INOPERABLE, PANCREATIC ADENOCARCINOMA
Benjamin Royal-Preyra, Matthew Abrams
Harvard University, Boston, MA

62
ACUTE TOXICITY IN HIGH-RISK PROSTATE CANCER PATIENTS TREATED WITH EXTREME HYPOFRACTIONATION (HRPC-SBRT)
Sergio Faria, Marie Duclos, Mohammed Aldohan, Fabio Cury, Horacio Patrocinio, Luis Souhami
McGill University, Montreal, QC

63
DOSE TO THE INTERNAL MAMMARY CHAIN LYMPH NODES IN CASES WITH INTERNAL MAMMARY LYMPH NODE RELAPSE: A CASE CONTROL STUDY
Louise Wade1, Lovedeep Gondara2, Carrie-Lynne Swift2, Nick Chng2, Dylan Narinesingh1, Caroline Speers2, Caroline Lohrisch1, Alan Nichol1
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency Vancouver, Vancouver, BC

64
POPULATION-BASED OUTCOMES OF GYNECOLOGIC CANCER PATIENTS TREATED WITH WHOLE BRAIN OR STEREOTACTIC RADIOTHERAPY FOR BRAIN METASTASES
Timothy Kong1, Maryam Dosani2, Jennifer Rauw2, Isabelle Vallieres2, Abraham Alexander1
1University of British Columbia, Vancouver, BC
2University of British Columbia, Victoria, BC

65
PREDICTORS OF EARLY POLYMETASTATIC RELAPSE FOLLOWING STEREOTACTIC ABLATIVE RADIOTHERAPY FOR UP TO 5 OLIGOMETASTASES: A SECONDARY ANALYSIS OF THE PHASE II SABR-5 TRIAL
Sarah Baker1, Benjamin Mou1, Will (Wei Ning) Jiang1, Mitchell Liu1, Alanah Bergman2, Devin Schellenberg1, Abraham Alexander1, Hannah Carolan1, Siavash Atrchian1, Tanya Berrang1, Andrew Bang1, Nick Chng2, Quinn Matthews2, Scott Tyldesley1, Robert Olson1
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC

66
DO ANTHROPOMETRIC INDICES CORRELATE WITH PROSTATE CANCER IN NIGERIAN MEN?
Kehinde Adeyinka1, Atara Ntekim2, Oluwabori Olukoyejo3, Temitope Ilori2, Augustine Takure2, Samuel Ajekwu3, Nurudeen Bakare4, Ramat Ganiyu4, Oluwaponmile Odukoya2, Paul Olapade2, Kenechukwu Okwunze2, Abraham Odalimeji3, Taiwo Aremu5, Anuja Jhingran6, Oluwatosin Oluwole5, Rebecca Wong7
1University College Hospital, Ibadan, NRA
2University of Ibadan, Ibadan, NRA
ENSURING SUPERIOR REPORTING OF NON-INFERIORITY RADIOTHERAPY CLINICAL TRIALS: A SYSTEMATIC REVIEW
Andrew Arifin1, David Palma1, Alexander Louie2, R. Gabriel Boldt1, Andrew Warner1, George Rodrigues1, Vivian Tan1, Michael Yan2
1London Health Sciences Centre, London, ON
2Sunnybrook Health Sciences Centre, Toronto, ON

RADIATION DOSE, TECHNIQUE, AND USE OF BRAIN RADIATION ON OVERALL SURVIVAL IN PATIENTS WITH LIMITED-STAGE SMALL CELL LUNG CANCER
Anand Swaminath, Shelly Palchik, Gregory Pond, Che Hsuan David Wu, Jim Wright, Theodoros Tsakiridis
McMaster University, Hamilton, ON

3:30-4:30
Poster Discussion 2 - TB II/III
Moderators:

Objectives: By the end of this session, the participants will be able to:
• Discover ongoing radiation oncology research taking place across a variety of areas.

MULTI-TARGET THORACIC STEREOTACTIC BODY RADIOTHERAPY - TOXICITY AND EFFICACY ANALYSIS
Eric Nguyen1, Ian Poon1, Yee Ung1, May Tsao1, Renee Korol1, Alyaa Elzibak1, Darby Erler1, Liying Zhang2, Alexander Louie1, Patrick Cheung1
1Odette Cancer Centre, Toronto, ON
2University of Toronto, Toronto, ON

PERSON-CENTERED RADIATION THERAPY FOR BREAST CANCER PATIENTS: PATIENT EXPERIENCES FROM A PROSPECTIVE RANDOMIZED TRIAL (PERSON)
Vivian Hoang, Michael Velec, Angela Cashell, Joseph Nachman, Jennifer Croke, Anthony Fyles, Rachel Glicksman, Ezra Hahn, Kathy Han, Joelle Helou, Fei-Fei Liu, Kavalpreet Singh, Amy Liu, Susan Chen, Kirsten Bryant, Suyeon Kim, Susanne Lofgren, Sajida Moledina, Anita Vloet, C. Anne Koch
Princess Margaret Cancer Centre, Toronto, ON
71
INCIDENCE AND MANAGEMENT TRENDS IN LOCALLY ADVANCED HEAD AND NECK NON-MELANOMA SKIN CANCER
Ka-Kit David Yeung, Han Zhang, Michael Gupta, Matthew McRae, Gregory Pond, Justin Lee
McMaster University, Hamilton, ON

72
PAIN AND INTERVENTIONS IN STAGE IV NON-SMALL CELL LUNG CANCER: A PROVINCE-WIDE ANALYSIS
Vivian Tan1, Michael Tjong2, Wing Chan3, Michael Yan2, Victoria Delibasic3, Gail Darling2,
Laura Davis4, Mark Doherty2, Julie Hallet2, Biniam Kidane5, Alyson Mahar5, Nicole Mittmann6,
Ambika Parmar2, Hendrick Tan7, Frances Wright2, Natalie Coburn2, Alexander Louie2
1Western University, London, ON
2University of Toronto, Toronto, ON
3Institute for Clinical Evaluative Sciences, Toronto, ON
4Sunnybrook Research Institute, Toronto, ON
5University of Manitoba, Winnipeg, MB
6Canadian Agency for Drugs and Technology in Health, Ottawa, ON
7GenesisCare, Perth, AU

73
ERECTILE FUNCTION AFTER 60GY IN 20 FRACTIONS EXTERNAL BEAM RADIOTHERAPY TO THE PROSTATE
Conrad Bayley1, Sarah Quirk2, Jeremy Braun2, Lingyue Sun2, Wendy Smith2, Harvey Quon2,
Kundan Thind3, Kevin Martell2
1University of Alberta, Edmonton, AB
2University of Calgary, Calgary, AB
3Henry Ford Health System, Detroit, MI

74
NEUROMODULATORY EFFECT AND DOSE RESPONSE OF FUNCTIONAL RADIOSURGERY ON CORTICAL NEURONS
Megan Boucher-Routhier1, Janos Szanto2, Jean-Philippe Thivierge1, Vimoj Nair2
1University of Ottawa, Ottawa, ON
2The Ottawa Hospital, Ottawa, ON

75
STEREOTACTIC BODY RADIOTHERAPY FOR RENAL CELL CARCINOMA: ONCOLOGIC AND RENAL FUNCTION OUTCOMES
Rachel Glicksman1, Patrick Cheung2, Renee Korol2, Mark Niglas3, Humza Nusrat2, Darby Erler2,
Danny Vesprini2, Anand Swaminath4, Melanie Davidson2, Liying Zhang2, William Chu2
1University of Toronto, Toronto, ON
2Odette Cancer Centre, Toronto, ON
3Lakeridge Health, Oshawa, ON
4Juravinski Cancer Centre, Hamilton, ON
EVALUATION OF USE OF ADJUVANT RADIOTHERAPY AND SURGICAL APPROACH WITH RESPECT TO ONCOLOGIC OUTCOMES IN THE MANAGEMENT OF EARLY-STAGE CERVICAL CARCINOMA
Laura Burgess, Wafa Alduwaisan, Tien Le, Rajiv Samant
University of Ottawa, Ottawa, ON

OUTCOMES OF 30GY IN 4 FRACTIONS FOR SPINE STEREOTACTIC BODY RADIOTHERAPY
Sunnybrook Health Sciences Centre, Toronto, ON

A BRITISH COLUMBIA BASED POPULATION STUDY ON THE TREATMENT AND LONG-TERM OUTCOMES OF THYMOMA: A 25-YEAR RETROSPECTIVE REVIEW
Eric Wu1, Daegan Sit2, Heather Derocher1, Tami Yu-Yu Lin3, Angela Lin4, Delia Sauciuc4, Sonja Murchison2, Jodi Siever3, Siavash Atrchian4
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC
3University of British Columbia, Kelowna, BC
4British Columbia Cancer Agency, Kelowna, BC

4:30-5:30
Mentorship Session - Governor General, 2nd fl

7:00
Welcome Reception
Backyard Party at The Ballroom
145 John Street
www.theballroom.ca
Friday September 30, 2022 - Convention Level

7:00-8:00
Breakfast Symposium – Governor General
Exhibit Hall

7:00-8:00
Registration and Breakfast - Convention Level
Committee Meetings - tbd

8:00-9:00
Oral Session 3 – Education and Survivorship TB I
Moderators:

Objectives: By the end of this session, the participants will be able to:
• Discover ongoing education research taking place within radiation oncology.
• Discover ongoing survivorship research taking place within radiation oncology.

19
EVALUATION OF SIMULATION-BASED VIRTUAL PATIENT ENCOUNTERS FOR LEARNING ONCOLOGIC EMERGENCY MANAGEMENT
Vanessa Di Lalla, Nancy Posel, Ian J. Gerard, Ziad Simon Fawaz, Joanne Alfieri
McGill University, Montreal, QC

20
OPTIMIZING PATIENT-CENTERED INCLUSIVE CARE IN ONCOLOGY: HEALTHCARE PROFESSIONALS’ KNOWLEDGE, ATTITUDES AND PRACTICES CARING FOR LGBQT2+ INDIVIDUALS
Nazlin Jivraj1, Gilla Shapiro2, Christian Schulz-Quach2, Emily Van de Laar1, Zhihui (Amy) Liu2, Jessica Weiss2, Jennifer Croke2
1Princess Margaret Cancer Centre, Toronto, ON
2University of Toronto, Toronto, ON

21
DOES A MENTORSHIP AWARD IN RADIATION ONCOLOGY INSPIRE MEDICAL STUDENTS TO PURSUE THE SPECIALTY? A SURVEY ANALYSIS OF MEDICAL STUDENTS, RESIDENT MENTORS, AND RESEARCH PROJECT SUPERVISORS
Paris-Ann Ingledew1, Ruijia Jin2, Meredith Giuliani3, David Wu4
1British Columbia Cancer Agency, Vancouver, BC
2University of British Columbia, Vancouver, BC
3Princess Margaret Cancer Centre, Toronto, ON
4Juravinski Cancer Centre, Hamilton, ON
22
VALIDATION OF THE BC-BRAIN PATIENT REPORTED OUTCOME QUESTIONNAIRE FOR PATIENTS WITH CENTRAL NERVOUS SYSTEM TUMOURS TREATED WITH RADIOTHERAPY
Ling Yan1, Alan Nichol2, Robert Olson3
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC
3British Columbia Cancer Agency, Prince George, BC

23
LONG TERM RESULTS OF A LONGITUDINAL STUDY OF UNMET SURVIVORSHIP NEEDS IN PATIENTS WITH HEAD AND NECK CANCER
Ionut Busca1, Meredith Giuliani2, Jessica Weiss2, Jennifer Jones2, Naa Kwarley Quartey2, Shao Hui Huang2, Alexander Toulany3, Janet Papadakos2, Jolie Ringash2
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON
3Hamilton Health Sciences, Hamilton, ON

24
EQUITY AS AN EMERGING FOCUS IN THE CANADIAN CANCER CARE SECTOR: RESULTS OF A RAPID SCOPING REVIEW
Michael McKenzie1, Leah Lambert1, Tara Horrill1, Annette Browne2, Kelli Stajduhar3, Jagbir Kaur1, Shannon Cheng1, Amber Bourgeois3, Fuchsia Howard2, Scott Beck1, Sally Thorne2
1British Columbia Cancer Agency, Vancouver, BC
2University of British Columbia, Vancouver, BC
3University of Victoria, Victoria, BC

8:00-9:00
Oral Session 4 – Breast and GI Cancer - TB II/III
Moderators:

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

• Discover ongoing breast research taking place within radiation oncology.
• Discover ongoing GI research taking place within radiation oncology.

25
ONCOLOGIC OUTCOME, TOXICITY AND COSMESIS AFTER SINGLE-FRACTION NEOADJUVANT RADIOTHERAPY FOR LOW-RISK BREAST CANCER
Danny Lavigne1, David Tiberi2, Peter Vavassis1, David Nguyen1, Marie-Christine Guilbert1, Alexis-Simon Cloutier1, Pierre Dubé1, Mai-Kim Gervais1, Lucas Sideris1, Guy Leblanc1, Michel-Pierre Dufresne1, Michael Yassa1
1Université de Montréal, Montreal, QC
2University of Ottawa, Ottawa, ON
26
ADJUVANT RADIOTHERAPY (RT) FOR BREAST CANCER PATIENTS WITH REMOTE RECONSTRUCTION: INSTITUTIONAL OUTCOMES
Nina Samson1, Sarah Quirk1, Tannis Graham2, Natalie Logie1
1University of Calgary, Calgary, AB
2Tom Baker Cancer Centre, Calgary, AB

27
EARLY INSTITUTIONAL EXPERIENCE OF ULTRA-HYPOFRACTIONATED BREAST RADIOTHERAPY IN A LARGE ACADEMIC CANCER CENTRE
Hiba Othman1, Aisling Barry1, Anthony Fyles1, Danielle Rodin1, Ezra Hahn1, Fei-Fei Liu1, Joelle Helou1, Rachel Glickman1, Naghmeh Isfahanian1, Zhihui (Amy) Liu1, Jessica Weiss1, Tony Tadic1, Michelle Chan2, Tom Purdie1, Anne Koch1, Jennifer Croke1
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON

28
DOSIMETRIC PARAMETERS CORRELATED WITH TOXICITY WITH SHORT COURSE RADIATION IN THE NEOADJUVANT TREATMENT OF RECTAL CANCERS
Yugmel Nijjar, Kurian Joseph, JoAnn Thai, Sunita Ghosh, Jihyun Yun, Brad Warkentin, Tirath Nijjar, Diane Severin, Keith Tankel, Alyssa Fairchild, Nawaid Usmani
University of Alberta, Edmonton, AB

29
AN EXAMINATION OF RECTAL ANATOMY DEFINITIONS AND FUTURE DIRECTIONS
Yiming (Michael) Zhu, Diane Severin
University of Alberta, Edmonton, AB

30
STATIN THERAPY IN PATIENTS UNDERGOING SHORT-COURSE NEOADJUVANT RADIOTHERAPY FOR RECTAL CANCER
Daniel Schep, Tyler McKechnie, Luisa Cardenas, Oren Levine, Cagla Eskicioglu, Raimond Wong
McMaster University, Hamilton, ON

9:00-10:00
Oral Session 5 – Stereotactic Radiosurgery - TB I
Moderators:

Objectives: By the end of this session, the participants will be able to:
• Discuss ongoing stereotactic radiotherapy, extra-cranial, research taking place within radiation oncology.

31
SINGLE FRACTION PERIPHERAL LUNG SBRT DURING THE GLOBAL COVID-19 PANDEMIC AT A CANCERCARE MANITOBA: AN ANALYSIS OF TECHNICAL FEASIBILITY AND CLINICAL SAFETY
Salem Alfaifi, William Hunter, Julian Kim, Shrinivas Rathod, Naseer Ahmed, Sankar Venkataraman, Niranjan Venugopal, Bill Kane, Amitava Chowdhury, Arbind Dubey, Ahmet Leylek, Gokulan Sivananthan, Saranya Kakumanu, Bashir Bashir
32
SETUP AND TREATMENT EFFICIENCY OF 2 PROSTATE SBRT RECTAL PREPARATION TECHNIQUES: EXPERIENCE FROM PROGRAM DEVELOPMENT AT A COMMUNITY CENTRE
Adam Gladwish1, Jessica Conway1, Christiaan Stevens1, Jesse Mclean2, Fred Yoon1, Amanda Lamb3, Muoi Tran3, Janice Kim3, Patrick Quinn3
1University of Toronto, Barrie, ON
2Royal Victoria Regional Hospital, Barrie, ON
3Barrie, ON

33
A PROSPECTIVE RANDOMIZED PARALLEL-CONTROLLED PILOT TRIAL OF STEREOTACTIC BODY RADIATION THERAPY VERSUS RADIOFREQUENCY ABLATION FOR THE MANAGEMENT OF SMALL RENAL MASSES - INITIAL RESULTS
Anand Swaminath, Jen Hoogenes, Oleg Mironov, Braden Millan, Edward Matsumoto, Anil Kapoor
McMaster University, Hamilton, ON

34
OUTCOMES OF STEREOTACTIC BODY RADIOTHERAPY FOR METASTASES TO THE HEAD AND NECK
Irene Karam, Ahmed Abugharib, Joshua Loblaw, Zain A. Husain, Andrew Bayley, Liying Zhang, Lee Chin, Darby Erler, Kevin Higgins, Danny Enepekides, Antoine Eskander, Ian Poon
University of Toronto, Toronto, ON

35
IMMUNOTHERAPY AND THE RISK OF RADIATION NECROSIS IN BRAIN METASTASES PATIENTS TREATED WITH STEREOTACTIC RADIOSURGERY
Benjamin Royal-Preyra, Griffin Harry, Donnella Comeau, Lauren Hertan, Erik Uhlmann
Harvard University, Boston, MA

36
PROGRESSION-FREE SURVIVAL AND LOCAL CONTROL FOLLOWING STEREOTACTIC ABLATIVE RADIOTHERAPY FOR UP TO 5 OLIGOMETASTASES: AN ANALYSIS FROM THE POPULATION-BASED PHASE II SABR-5 TRIAL
Sarah Baker1, Will (Wei Ning) Jiang1, Benjamin Mou1, Chad Lund1, Mitchell Liu1, Alanah Bergman2, Devin Schellenberg1, Abraham Alexander1, Hannah Carolan1, Siavash Atrchian1, Nick Chng3, Quinn Matthews3, Alexander Benny1, Scott Tyldesley1, Robert Olson1
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC
3N/A, Prince George, BC
9:00-10:00
**Oral Session 6 – Variety Pack - TB II/III**

Moderators:

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

- Review ongoing research taking place within radiation oncology in a variety of categories.

37
**CLINICAL OUTCOMES OF MEDULLOBLASTOMA PATIENTS TREATED WITH PROTON RADIOTHERAPY: A SYSTEMATIC REVIEW**
Sympascho Young1, Kiran Phaterpekar2, Glenn Bauman1, Gabriel Boldt1, Derek Tsang3
1Western University, London, ON
2University of British Columbia, Vancouver, BC
3University of Toronto, Toronto, ON

38
**MALIGNANT SALIVARY GLAND TUMOURS AND LONGTERM PATIENTS OUTCOMES BASED ON THE AMERICAN JOINT COMMITTEE ON CANCER 8TH EDITION STAGING SYSTEM**
Daegan Sit1, Ko Ta Chen1, Billy Zhao1, Matthew Chan1, Eric Tran1, Eric Berthelet1, Robert Olson2, Sarah Hamilton1, Tony Ng1, Nicole Chau1, Jonn Wu1
1University of British Columbia, Vancouver, BC
2University of British Columbia, Prince George, BC

39
**A NOVEL, RAPID AND SIMPLE (RAPPLE) PARTIAL BRAIN RADIOTHERAPY TECHNIQUE TO TREAT BRAIN METASTASIS: A RETROSPECTIVE REVIEW OF OUTCOMES**
Timothy Kong1, Gurjit Parmar1, Hannah Carolan1, Mitchell Liu1, Shilo Lefresne1, Eric Berthelet1, Jessica Chan1, Lovedeep Gondara2, Steven Thomas2, Ante Mestrovic2, Alan Nichol1
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC

40
**EVALUATING MULTIDISCIPLINARY PEER REVIEW: A RETROSPECTIVE STUDY OF PLAN MODIFICATIONS IN RADICAL AND PALLIATIVE INTENT RADIATION THERAPY TREATMENTS**
Adrian Cozma1, Muoi Tran2, Tiffany Tam2, Frederick Yoon2, Kyle Malkoske2, Jesse McLean2, Giulio Didiodato2, Keith Nakonechny2, Christiaan Stevens2
1University of Toronto, Toronto, ON
2Royal Victoria Regional Health Centre, Barrie, ON
OUTCOMES OF EXTRACRANIAL OLIGORECURRENCE AFTER PRIOR METASTASES DIRECTED STEREOTACTIC BODY RADIOTHERAPY FOR OLIGOMETASTATIC DISEASE
Jonathan Peng1, Darby Erler1, Hanbo Chen1, Roi Dagan2, Kristin J. Redmond3, Matthew Foote4, Serena Badellino5, Tithi Biswas6, Alexander V. Louie1, Umberto Ricardi5, Arjun Sahgal1, Poon Ian1
1Odette Cancer Centre, Toronto, ON
2University of Florida, Jacksonville, FL
3Johns Hopkins University, Baltimore, MD
4University of Queensland, Woolloongabba, AU
5University of Turin, Turin, IT
6Case Western Reserve University, Cleveland, OH

A COMPETING RISK ANALYSIS OF PROGNOSTIC FACTORS FOR LOCAL AND REGIONAL RECURRENCE AND SURVIVAL OUTCOMES IN EARLY-STAGE NON-SMALL CELL LUNG CANCER TREATED WITH STEREOTACTIC ABLATIVE RADIATION THERAPY
Marion Tonneau, Corentin Richard, Bertrand Routy, Marie-Pierre Campeau, Toni Vu, Edith Filion, David Roberge, Dominique Mathieu, Robert Doucet, Dominic Belliveau-Nadeau, Houda Bahig
Centre Hospitalier de l'Université de Montréal, Montréal, QC

10:00-10:50
Refreshment Break
Poster Viewing – TB III, TB III Aisle, Johnston, Tom Thomson
Exhibit Hall

10:50-12:00
Fellow Competition - TB I/II/III
Moderators:

Objectives: By the end of this session, the participants will be able to:
• Discover ongoing research taking place by radiation oncology fellows.
• Discuss the top ranked Canadian Radiation Oncology Fellow research abstracts.

A RANDOMIZED PHASE III TRIAL COMPARING HEALTH-RELATED QUALITY OF LIFE AFTER LOW DOSE RATE (LDR) OR HIGH DOSE RATE (HDR) PROSTATE BRACHYTHERAPY BOOST COMBINED WITH EXTERNAL BEAM PELVIC RADIOTHERAPY (EBRT)
Nikitha Moideen1, Juanita Crook1, Cynthia Araujo2, Deidre Batchelor1, Felipe Castro Canovas1, Ross Halperin1, Michelle Hiltz2, David Kim1, David Petrik1, Jim Rose3, Francois Bachand1
1University of British Columbia, Kelowna, BC
2British Columbia Cancer Agency, Kelowna, BC
3University of British Columbia, Abbotsford, BC
PREDICTIVE FACTORS FOR SURVIVAL AND RADIATION NECROSIS IN PATIENTS WITH RECURRENT HIGH-GRADE GLIOMA TREATED WITH RE-IRRADIATION
Daniel Palhares1, Hanbo Chen1, Michael Wang1, Sten Myrehaug1, Jay Detsky1, Chia-Lin (Eric) Tseng1, Zain Husain1, Mary Jane Lim-fat1, Nir Lipsman1, Sunit Das2, Julia Keith1, Arjun Sahgal1, Hany Soliman1
1Sunnybrook Health Sciences Centre, Toronto, ON
2University of Toronto, Toronto, ON

LONG-TERM OUTCOMES OF SABR TO PRIMARY RENAL CELL CARCINOMA: A MULTI-CENTRE ANALYSIS FROM THE INTERNATIONAL RADIOSURGERY ONCOLOGY CONSORTIUM FOR KIDNEY (IROCK)
1Western University, London, ON
2University of Melbourne, Melbourne, AU
3University of Munich Hospitals, Munich, DE
4Case Western Reserve University, Cleveland, OH
5Pennsylvania State University, Hershey, PA
6University of Washington School of Medicine, Seattle, WA
7University of Yamanashi, Yamanashi, JP
8McMaster University, Hamilton, ON
9University of Texas Southwestern Medical Center, Dallas, TX
10University of Ottawa, Ottawa, ON
11McGill University, Montreal, QC
12Houston Methodist Hospital Cancer Center and Research Institute, Houston, TX
13 Geisinger Health, Danville, PA
14Beth Israel Deaconess Medical Center, Boston, MA
15Sunnybrook Health Sciences Centre, Toronto, ON
16London Health Sciences Centre, London, ON

TREATMENT PATTERNS AND OUTCOMES OF PATIENTS WITH HIGH-GRADE GLIOMA DURING THE COVID-19 PANDEMIC
Ghufran Aljawi, Manik Chahal, Rebecca Harrison, Alan Nichol, Brian Thiessen
British Columbia Cancer Agency, Vancouver, BC

PSMA-PET/CT GUIDED INTENSIFICATION OF RADIOTHERAPY FOR PROSTATE CANCER (PSMAGRT): FINDINGS OF DETECTION RATE, IMPACT ON CANCER MANAGEMENT, AND EARLY TOXICITY FROM A PHASE 2 RANDOMIZED CONTROLLED TRIAL
Claire Petit1, Guila Delouya1, Daniel Taussky1, Maroie Barkati1, Carole Lambert1, Marie-Claude Beauchemin1, Sébastien Clavel2, Gary Mok2, Anne-Sophie Gauthier Paré2, Thu-van Nguyen2, Danny Duplan2, Khun Visith Keu2, Fred Saad1, Daniel Juneau1, Cynthia Ménard1
47
MATURE LOCAL CONTROL AND REIRRADIATION RATES COMPARING SPINE STEREOTACTIC BODY RADIOTHERAPY TO CONVENTIONAL PALLIATIVE EXTERNAL BEAM RADIOTHERAPY
K. Liang Zeng1, Sten Myrehaug1, Hany Soliman1, Zain A. Husain1, Chia-Lin Tseng1, Jay Detsky1, Mark Ruschin1, Eshetu Atenafu2, Christopher Witiw1, Jeremie Larouche1, Leodante da Costa1, Pejman Jabehdar Maralani1, Wendy Parulekar3, Arjun Sahgal1
1University of Toronto, Toronto, ON
2University Health Network, Toronto, ON
3Queen’s University, Kingston, ON

48
STEREOTACTIC BODY RADIATION THERAPY FOR NON-SPINE BONE METASTASES: LOCAL CONTROL AND FRACTURE RISK
Eric Nguyen1, Renee Korol1, Saher Ali1, Aaron Cumar1, Darby Erler1, Alexander Louie1, Timothy Nguyen2, Arjun Sahgal1, Hanbo Chen1
1Odette Cancer Centre, Toronto, ON
2London Health Sciences Centre, London, ON

12:00-1:50
Lunch
Symposium – Governor General
Visit Exhibit Hall
Committee Meetings - tbd
Yoga 12:15-12:45 – poolside or walkway

1:50-2:00
Truth and Reconciliation Tribute - TB I/II/III

2:00-2:45
CARO Gold Medal and Gordon Richards Lecture - TB I/II/III
Moderator:
Introduction: Scott Tyledsley

Barriers to Clinical Research: We Can Get Over the Hurdles
David Palma

Objectives: By the end of this session, the participants will be able to:
• Review the barriers that prevent the completion of clinical research.
• Discuss pragmatic strategies for successful study design and completion.

2:45-3:00
Question & Answer Period
3:00-4:15  
**Workshop 1** - Jackson  
Pan-Canadian Expansion of Electronic Patient Reported Outcomes (ePROs): A Patient Engagement Tool Needed More than Ever  
Amanda Caissie

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

- Illustrate the current state of the pan-Canadian PRO radiotherapy (recently divested from CPQR to CARO), using examples from PROs initiatives in Canadian radiotherapy centres;
- Identify the clinical benefits of PROs from point of care clinical use (symptom monitoring/management) to patient triage models: real-life examples from early PRO adopters;
- to guide future PRO program expansion, apply lessons learned from early adopters in PROs implementation: from change management strategies to navigation of IT challenges and PROs use for quality improvement.

3:00-4:15  
**Workshop 2** - Carmichael  
Integrating Equity-oriented Healthcare Into Cancer Care Practice  
Michael McKenzie

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

- Discuss health and healthcare equity, and how inequities impact patient experiences and outcomes in the cancer care sector;
- Begin applying an equity lens in clinical settings and practice;
- Explore strategies and existing tools for integrating equity-oriented approaches at a systems level.

3:00-4:15  
**Workshop 3** - Governor General  
Future of SABR Trials in Oligometastatic Cancer  
Robert Olson

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

- Review current state of SABR clinical trials;
- Review candidate future clinical trials;
- Select Canadian led SABR trials to further develop.

4:15-4:30  
Refreshment/Stretch Break

4:30-6:00  
**Annual General Meeting** (By Invitation Only) - TB II/III

7:00  
**Dinner and Awards Ceremony** - TB I/II
Saturday October 1, 2022 - Convention Level

7:00-8:00
Breakfast Symposium - Governor General
Committee Meetings - tbd

7:00-8:00
**CROF Fun Run/Walk**
Meet in the lobby of the hotel at University Avenue Doors

8:00-8:45
**Jean Roy Lecture** - TB I
Moderator:
Introduction:

Title:
Mark Corkum

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

8:45-9:00
Question & Answer Period

9:00-10:00
**Canadian Brachytherapy Group Oral Session** - TB I
Moderators:

Objectives: By the end of this session, the participants will be able to:
- Discover ongoing brachytherapy research taking place within radiation oncology.
- Discuss the top ranked brachytherapy research abstracts.

49
**AUTOMATED CATHETER TRACKING IN 3D ULTRASOUND IMAGES FROM HIGH-DOSE-RATE PROSTATE BRACHYTHERAPY USING DEEP LEARNING AND FEATURE EXTRACTION**
Nicole Kitner, Jessica R. Rodgers, Tamas Ungi, Timothy Olding, Chandra Joshi, Parvin Mousavi, Gabor Fichtinger, Martin Korzeniowski
Queen's University, Kingston, ON

50
**A PILOT STUDY OF SALVAGE HDR BRACHYTHERAPY IN RECURRENT PROSTATE CANCER: 5 YEAR TOXICITY AND OUTCOMES**
Maxence Cloutier, Damien Carignan, Marie-Claude Lavallée, André-Guy Martin, Éric Vigneault, William Foster
CHU de Québec-Université Laval, Québec, QC
PATIENT'S REPORTED OUTCOMES (PROS) OF AN ULTRA-HYPO FRACTIONATED (UHF) PROSTATE IMAGE GUIDED RADIATION THERAPY (IGRT) WITH HDR BRACHYTHERAPY BOOST (BB) AS COMPARED TO A MODERATE HYPO FRACTIONATED (MHF) APPROACH: INTERIM ANALYSIS OF A PHASE TWO STUDY
Andre-Guy Martin, Damien Carignan, Marie-Michèle Beaudry, Élyse Ménard, William Foster, Éric Vigneault, Sindy Magnan, Bernard Lachance, Éric Poulin, Louis Archambault, Frédéric Lacroix, Luc Beaulieu, Philippe Després
CHU de Québec-Université Laval, Québec, QC

EARLY CLINICAL OUTCOMES AFTER PELVIC INTERSTITIAL BRACHYTHERAPY USING 3D-PRINTED PATIENT-SPECIFIC CUSTOM VAGINAL TEMPLATES IN BRITISH COLUMBIA
François Bachand, Deidre Batchelar, Michael Kudla, Jocelyn Moore, Hamid Raziee, Nikitha Moideen, Felipe Castro, Juanita Crook
University of British Columbia, Kelowna, BC

COMPARING DOSIMETRY OF LOCALLY ADVANCED CERVIX CANCER PATIENTS TREATED WITH 3 VERSUS 4 FRACTIONS OF MRI-GUIDED BRACHYTHERAPY
Aba Scott, University of Toronto, Toronto, Ontario
Madrigal Weersink, ZhihuiAmy Liu, Michael Milosevic, Jennifer Croke, Anthony Fyles, Jelena Lukovic, Alexandra Rink, Akbar Beiki-Ardakani, Jette Borg, Jason Xie, Kitty Chan, Heather Ballantyne, Julia Skliarenko, Jessica Conway, Adam Gladwish, Robert Weersink, Kathy Han
University of Toronto, Toronto, ON

RADIOBIOLOGICAL RESPONSE TO BRACHYTHERAPY: CERVICAL SQUAMOUS CELL CARCINOMA VERSUS ADENOCARCINOMA PARAMETERS, QUANTIFIED IN VITRO
Braden Chow, Brad Warkentin, Kareena Nanda, Sunita Ghosh, Fleur Huang, Armin Gamper, Geetha Menon
University of Alberta, Edmonton, AB

10:30-12:00
CARO-ESTRO Symposium - TB I
Radiation Oncology 2042
Moderators:

Objectives: By the end of this session, the participants will be able to:
• Identify patients who will benefit from novel radiotherapy techniques (protons and MR-based radiotherapy) and how to track outcomes
• Understand the future of how clinical care is delivered, including optimizing patient encounters and including research opportunities
Objectives: By the end of this session, the participants will be able to:

- Understand a variety of interesting and select topics of radiation therapy innovations, and how they impact our cancer population.
- Describe the results of innovative and practice-changing research done by Canadian peers.

55
EVALUATION OF PATIENT REPORTED OUTCOME DIFFERENCES BY RADIOTHERAPY TECHNIQUE FOR BONE METASTASES IN A NON-INCENTIVIZED HEALTH CARE SYSTEM
Vincent Lapointe1, Alex Benny2, Matthew Chan3, Shilo Lefresne3, Michael McKenzie3, Robert Olson2
1British Columbia Cancer Agency, Vancouver, BC
2University of British Columbia, Prince George, BC
3University of British Columbia, Vancouver, BC

56
PHASE 2 TRIAL OF NEOADJUVANT METFORMIN AND TEMOZOLOMIDE FOLLOWED BY HYPOFRACTIONATED ACCELERATED RADIOTHERAPY WITH CONCOMITANT AND ADJUVANT METFORMIN AND TEMOZOLOMIDE IN PATIENTS WITH NEWLY DIAGNOSED GliOBLASTOM
George Shenouda, Kevin Petrecca, Bassam Abdulkarim, Scott Owen, Valerie Panet-Raymond, Roberto Diaz, Marie-Christine Guiot, Jeffery Hall, Melissa Charbonneau, Tatiana Carvalho, Luis Souhami
McGill University, Montreal, QC

57
ACCELERATED PARTIAL BREAST IRRADIATION (APBI) USING FIVE DAILY FRACTIONS: A PROSPECTIVE, PHASE II, MULTI-CENTRE TRIAL OF COSMETIC OUTCOMES AND TOXICITY (THE ACCEL TRIAL): FINAL RESULTS
Mark Lesiuk1, Peter Craighead2, Hongwei Liu3, Jane Wilson4, James Pinilla1, Tien Phan2, Ivo A Olivotto2, Karen Long1, Sarah Quirk2, Petra Grendarova5, Michael Roumeliotis2
1Alberta Health Services, Calgary, AB
2University of Calgary, Calgary, AB
3University of Calgary, Red Deer, AB
4University of Calgary, Lethbridge, AB
5University of Calgary, Grande Prairie, AB

58
EVALUATING THE SHORT-TERM ENVIRONMENTAL AND CLINICAL EFFECTS OF A RADIATION ONCOLOGY DEPARTMENT'S RESPONSE TO THE COVID-19 PANDEMIC (STEER COVID-19)
Philip Wong1, Ronald Cheung2, Emma Ito1, Marianela Lopez1, Ed Rubinstein3, Harald Keller1, Fred Cheung1, Zhihui Amy Liu1, Fei-Fei Liu1
Poster Abstracts 59-189

59  
ELIMINATING TATTOOS FOR SHORT COURSE PALLIATIVE RADIOTHERAPY: SET-UP ERROR, SATISFACTION AND COST  
Tara Rosewall, Joanna Javor2, Angela Cashell2, Carina Feuz2, Edward Taylor1, Aisling Barry1  
1University of Toronto, Toronto, ON  
2Princess Margaret Cancer Centre, Toronto, ON

60  
DOES A SUBSPECIALTY GYNECOLOGIC PATHOLOGY REVIEW CHANGE MANAGEMENT OF ENDOMETRIAL CANCER PATIENTS: A BC CANCER- VICTORIA EXPERIENCE  
Jennifer Rauw1 Caroline Holloway1, Heather Lockyear2, Celine Laumount1, Julie Irving1, Joyce Leo1  
1University of British Columbia, Victoria, BC  
2British Columbia Cancer Agency, Victoria, BC

61  
THE NON-OPERATIVE MANAGEMENT USING SBRT FOR TECHNICALLY RESECTABLE, BUT MEDICALLY INOPERABLE, PANCREATIC ADENOCARCINOMA  
Benjamin Royal-Preyra, Matthew Abrams  
Harvard University, Boston, MA

62  
ACUTE TOXICITY IN HIGH-RISK PROSTATE CANCER PATIENTS TREATED WITH EXTREME HYPOFRACTIONATION (HRPC-SBRT)  
Sergio Faria, Marie Duclos, Mohammed Aldohan, Fabio Cury, Horacio Patrocinio, Luis Souhami  
McGill University, Montreal, QC

63  
DOSE TO THE INTERNAL MAMMARY CHAIN LYMPH NODES IN CASES WITH INTERNAL MAMMARY LYMPH NODE RELAPSE: A CASE CONTROL STUDY  
Louise Wade1, Lovedeep Gondara2, Carrie-Lynne Swift2, Nick Chng2, Dylan Narinesingh1, Caroline Speers2, Caroline Lohrisch1, Alan Nichol1  
1University of British Columbia, Vancouver, BC  
2British Columbia Cancer Agency Vancouver, Vancouver, BC
64 POPULATION-BASED OUTCOMES OF GYNECOLOGIC CANCER PATIENTS TREATED WITH WHOLE BRAIN OR STEREOTACTIC RADIOThERAPY FOR BRAIN METASTASES
Timothy Kong1, Maryam Dosani2, Jennifer Rauw2, Isabelle Vallieres2, Abraham Alexander1
1University of British Columbia, Vancouver, BC
2University of British Columbia, Victoria, BC

65 PREDICTORS OF EARLY POLYMETASTATIC RELAPSE FOLLOWING STEREOTACTIC ABLATIVE RADIOTHERAPY FOR UP TO 5 OLIGOMETASTASES: A SECONDARY ANALYSIS OF THE PHASE II SABR-5 TRIAL
Sarah Baker1, Benjamin Mou1, Will (Wei Ning) Jiang1, Mitchell Liu1, Alanah Bergman2, Devin Schellenberg1, Abraham Alexander1, Hannah Carolan1, Siavash Atrchian1, Tanya Berrang1, Andrew Bang1, Nick Chng2, Quinn Matthews2, Scott Tyldesley1, Robert Olson1
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC

66 DO ANTHROPOMETRIC INDICES CORRELATE WITH PROSTATE CANCER IN NIGERIAN MEN?
Kehinde Adeyinka1, Atara Ntekim2, Oluwabori Olukoyejo3, Temitope Ilori2, Augustine Takure2, Samuel Ajekwu3, Nurudeen Bakare4, Ramat Ganiyu4, Oluwaponmile Odukoya2, Paul Olapade2, Kenechukwu Okwunze2, Abraham Oladimeji3, Taiwo Aremu5, Anuja Jhingran6, Oluwatosin Oluwole5, Rebecca Wong7
1University College Hospital, Ibadan, NRA
2University of Ibadan, Ibadan, NRA
3Obafemi Awolowo University Teaching Hospital, Ile-Ife, NRA
4Lagos State University Teaching Hospital, Ikeja, NRA
5University of Minnesota, Minneapolis, MN
6The University of Texas MD Anderson Cancer Center, Houston, TX
7University of Toronto, Toronto, ON

67 ENSURING SUPERIOR REPORTING OF NON-INFERIORITY RADIOTHERAPY CLINICAL TRIALS: A SYSTEMATIC REVIEW
Andrew Arifin1, David Palma1, Alexander Louie2, R. Gabriel Boldt1, Andrew Warner1, George Rodrigues1, Vivian Tan1, Michael Yan2
1London Health Sciences Centre, London, ON
2Sunnybrook Health Sciences Centre, Toronto, ON

68 RADIATION DOSE, TECHNIQUE, AND USE OF BRAIN RADIATION ON OVERALL SURVIVAL IN PATIENTS WITH LIMITED-STAGE SMALL CELL LUNG CANCER
Anand Swaminath, Shelly Palchik, Gregory Pond, Che Hsuan David Wu, Jim Wright, Theodoros Tsakiridis
McMaster University, Hamilton, ON
69
MULTI-TARGET THORACIC STEREOTACTIC BODY RADIOTHERAPY - TOXICITY AND EFFICACY ANALYSIS
Eric Nguyen1, Ian Poon1, Yee Ung1, May Tso1, Renee Korol1, Alyaa Elzibak1, Darby Erler1, Liying Zhang2, Alexander Louie1, Patrick Cheung1
1 Odette Cancer Centre, Toronto, ON
2 University of Toronto, Toronto, ON

70
PERSON-CENTERED RADIATION THERAPY FOR BREAST CANCER PATIENTS: PATIENT EXPERIENCES FROM A PROSPECTIVE RANDOMIZED TRIAL (PERSON)
Vivian Hoang, Michael Velec, Angela Cashell, Joseph Nachman, Jennifer Croke, Anthony Fyles, Rachel Glicksman, Ezra Hahn, Kathy Han, Joelle Helou, Fei-Fei Liu, Kawalpreet Singh, Amy Liu, Susan Chen, Kirsten Bryant, Suyeon Kim, Susanne Lofgren, Sajida Moledina, Anita Vloet, C. Anne Koch
Princess Margaret Cancer Centre, Toronto, ON

71
INCIDENCE AND MANAGEMENT TRENDS IN LOCALLY ADVANCED HEAD AND NECK NON-MELANOMA SKIN CANCER
Ka-Kit David Yeung, Han Zhang, Michael Gupta, Matthew McRae, Gregory Pond, Justin Lee
McMaster University, Hamilton, ON

72
PAIN AND INTERVENTIONS IN STAGE IV NON-SMALL CELL LUNG CANCER: A PROVINCE-WIDE ANALYSIS
Vivian Tan1, Michael Tjong2, Wing Chan3, Michael Yan2, Victoria Delibasic2, Gail Darling2, Laura Davis4, Mark Doherty2, Julie Hallet2, Biniam Kidane5, Alyson Mahar5, Nicole Mittmann6, Ambika Parmar2, Hendrick Tan7, Frances Wright2, Natalie Coburn2, Alexander Louie2
1 Western University, London, ON
2 University of Toronto, Toronto, ON
3 Institute for Clinical Evaluative Sciences, Toronto, ON
4 Sunnybrook Research Institute, Toronto, ON
5 University of Manitoba, Winnipeg, MB
6 Canadian Agency for Drugs and Technology in Health, Ottawa, ON
7 GenesisCare, Perth, AU

73
ERECTILE FUNCTION AFTER 60GY IN 20 FRACTIONS EXTERNAL BEAM RADIOTHERAPY TO THE PROSTATE
Conrad Bayley1, Sarah Quirk2, Jeremy Braun2, Lingyue Sun2, Wendy Smith2, Harvey Quon2, Kundan Thind3, Kevin Martell2
1 University of Alberta, Edmonton, AB
2 University of Calgary, Calgary, AB
3 Henry Ford Health System, Detroit, MI
74  NEUROMODULATORY EFFECT AND DOSE RESPONSE OF FUNCTIONAL RADIOSURGERY ON CORTICAL NEURONS
Megan Boucher-Routhier1, Janos Szanto2, Jean-Philippe Thivierge1, Vimoj Nair2
1University of Ottawa, Ottawa, ON
2The Ottawa Hospital, Ottawa, ON

75  STEREOTACTIC BODY RADIOTHERAPY FOR RENAL CELL CARCINOMA: ONCOLOGIC AND RENAL FUNCTION OUTCOMES
Rachel Glicksman1, Patrick Cheung2, Renee Korol2, Mark Niglas3, Humza Nusrat2, Darby Erler2, Danny Vesprini2, Anand Swaminath4, Melanie Davidson2, Liying Zhang2, William Chu2
1University of Toronto, Toronto, ON
2Odette Cancer Centre, Toronto, ON
3Lakeridge Health, Oshawa, ON
4Juravinski Cancer Centre, Hamilton, ON

76  EVALUATION OF USE OF ADJUVANT RADIOTHERAPY AND SURGICAL APPROACH WITH RESPECT TO ONCOLOGIC OUTCOMES IN THE MANAGEMENT OF EARLY-STAGE CERVICAL CARCINOMA
Laura Burgess, Wafa Alduwaisan, Tien Le, Rajiv Samant
University of Ottawa, Ottawa, ON

77  OUTCOMES OF 30GY IN 4 FRACTIONS FOR SPINE STEREOTACTIC BODY RADIOTHERAPY
Sunnybrook Health Sciences Centre, Toronto, ON

78  A BRITISH COLUMBIA BASED POPULATION STUDY ON THE TREATMENT AND LONG-TERM OUTCOMES OF THYMOMA: A 25-YEAR RETROSPECTIVE REVIEW
Eric Wu1, Daegan Sit2, Heather Derocher1, Tami Yu-Yu Lin3, Angela Lin4, Delia Sauciuc4, Sonja Murchison2, Jodi Siever3, Siavash Atrchian4
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC
3University of British Columbia, Kelowna, BC
4British Columbia Cancer Agency, Kelowna, BC

79  PLANNING FOR THE IMPACT OF SC.24 ON SPINE STEREOTACTIC BODY RADIOTHERAPY (SBRT) UTILIZATION AT A TERTIARY CANCER CENTRE
Timothy Nguyen1, Sympascho Young1, Arjun Sahgal2, Andrew Arifin1
1London Health Sciences Centre, London, ON
2Sunnybrook Health Sciences Centre, Toronto, ON
80 OPTIMIZING RESOURCES AND SKILLS IN A MULTIDISCIPLINARY WORKFLOW FOR PROSTATE MR-LINAC ADAPTIVE RADIOTHERAPY
Winnie Li1, Patricia Lindsay1, Jerusha Padayachee2, Jennifer Dang2, Vickie Kong1, Cathy Carpino-Rocca2, Iris Wong2, Peter Chung1
1University of Toronto, Toronto, Ontario
2Princess Margaret Cancer Centre, Toronto, ON

81 OUTCOMES OF LOCALLY ADVANCED, PT4 WELL-DIFFERENTIATED THYROID CANCER WITH OVERALL STAGE I DISEASE - A POPULATION-BASED STUDY
Daegan Sit1, Aria Shokoohi2, Tyler Raycraft1, Mitchell Vu1, Matthew Chan1, Nicole Chau1, Eric Berthelet1, Eric Tran1, Jonn Wu1, Robert Olson3, Sarah Nicole Hamilton1
1University of British Columbia, Vancouver, BC
2University of Alberta, Edmonton, AB
3University of British Columbia, Prince George, BC

82 Withdrawn

83 DOSE-ESCALATED TWO-FRACTION SPINE STEREOTACTIC BODY RADIOTHERAPY: 28 GY VERSUS 24 GY IN 2 DAILY FRACTIONS
K. Liang Zeng1, Ahmed Abugharib1, Hany Soliman1, Sten Myrehaug1, Zain Husain1, Jay Detsky1, Mark Ruschin1, Alex Karotki1, Eshetu Atenafu2, Pejman Maralani1, Arjun Sahgal1, Chia-Lin Tseng1
1University of Toronto, Toronto, ON
2University Health Network, Toronto, ON

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