Please note this is a working document!

Canadian Association of Radiation Oncology Annual Scientific Meeting (CARO ASM)  
September 28-October 1, 2022

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.

PROGRAM - Last update: June 8, 2022

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
10:30-11:15
**CARO Lecture** - TB I/II/III
Moderator: Jolie Ringash

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 SUNITINIB, 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
2University 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.
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
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 Vespri2, Anthony Kim2, Claire McCann2, Brian Keller2, Aisha Sheikh2, Francois Gallant2, Brian Liszewski2, Irene Karam2
1Sunnybrook Health Sciences Centre, Toronto, ON
2University of Toronto, Toronto, ON
16 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

17 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

18 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 Chytik-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

3:30-4:30
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.

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
1 University of British Columbia, Victoria, BC
2 British 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
1 University of British Columbia, Vancouver, BC
2 British 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
1 University of British Columbia, Vancouver, BC
2 University 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
1 University of British Columbia, Vancouver, BC
2 British 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
1 University College Hospital, Ibadan, NRA
2 University 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, Kaulpreet 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

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
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

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

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.

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
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

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 Glicksman1, Nagmeh 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

DOSIMETRIC PARAMETERS CORRELATED WITH TOXICITY WITH SHORT COURSE RADIATION IN THE NEOADJUVANT TREATMENT OF RECTAL CANCERS
Yugmell 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

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

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.

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
1 University of Manitoba, Winnipeg, MB

32
SETUP AND TREATMENT EFFICIENCY OF TWO PROSTATE SBRT RECTAL PREPARATION TECHNIQUES: EXPERIENCE FROM PROGRAM DEVELOPMENT AT A COMMUNITY CENTRE
Adam Gladwish1, Jessica Conway1, Christiaan Stevens1, Jesse Mclean2, Fred Yoon1, Amanda Lamb2, Muoi Tran2, Janice Kim2, Patrick Quinn2
1 University of Toronto, Barrie, ON
2 Royal Victoria Regional Hospital, Barrie, 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
1 University of British Columbia, Vancouver, BC
2 British Columbia Cancer Agency, Vancouver, BC
3 N/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

41
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 Beliveau-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.

1
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 Hilts2, 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

43
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

44
LONG-TERM OUTCOMES OF SABR TO PRIMARY RENAL CELL CARCINOMA: A MULTI-CENTRE ANALYSIS FROM THE INTERNATIONAL RADIOSURGERY ONCOLOGY CONSORTIUM FOR KIDNEY (IROCK)
Rohann Correa1, Shankar Siva2, Ali Muhammad2, Alexander Muacevic3, Lee Ponsky4, Rodney Ellis5, Simon S. Lo6, Hiroshi Onishi7, Anand Swaminath8, Mark Mclaughlin9, Scott Morgan10,
Fabio Cury11, Bin S. Teh12, Anand Mahadevan13, Irving Kaplan14, William Chu15, Raquibul Hannan9, Michael Staehler3, Andrew Warner16, Alexander V. Louie15
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

45
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

46
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
1Centre de Recherche du Centre Hospitalier de l’Université de Montréal (crCHUM), Montreal, QC
2CHU de Quebec, Laval, QC

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
STEREOTACTIC BODY RADIATION THERAPY FOR NON-SPINE BONE METASTASES: LOCAL CONTROL AND FRACTURE RISK
Eric Nguyen1, Renee Korol1, Saher Ali1, Aaron Cumal1, 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:

Brachytherapy Training: How Do We Construct a Renaissance?
Mark Corkum

Objectives: By the end of this session, the participants will be able to:
- Understand factors which have contributed to a decline in brachytherapy utilization
- Describe approaches to enhance training of radiation oncologists in brachytherapy
- Propose steps aimed at attracting the next generation of radiation oncologists to become brachytherapy

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 Beauleiu, 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

Francois 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

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
12:00-12:15
Refreshment/Stretch Break

12:15-1:15
**Plenary Abstracts** - TB I
Moderators:

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
1Princess Margaret Cancer Centre, Toronto, ON
2University of Western Ontario, London, ON
3University Health Network, Toronto, ON

1:15-1:30
Closing Remarks - TB I

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 Tsao1, Renee Korol1, Alyaa Elzibak1, Darby Erler1, Liying Zhang2, Alexander Louie1, Patrick Cheung1
1Odette Cancer Centre, Toronto, ON
2University 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 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

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, Joon Wuu1, 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

84
ADULT SURVIVORS OF CHILDHOOD CANCER: VIEWS ON COVID-19 AND VACCINATION
Karen Goddard1, Andrew Pritchard1, Jeffrey Toy2, Luminita Nica1, Fuchsia Howard2, Jonathan Loree1
1British Columbia Cancer Centre, Vancouver, BC
2University of British Columbia, Vancouver, BC
85
TEN-YEAR TRENDS IN CANADIAN FEMALE MEDICAL STUDENT INTEREST IN RADIATION ONCOLOGY
Yiming (Michael) Zhu1, Conley Kriegler1, Adele Duimering1, Meredith Giuliani2, Shaun Loewen3, Brock Debenham1, Jordan Hill1
1University of Alberta, Edmonton, AB
2 University of Toronto, Toronto, ON
3University of Calgary, Calgary, AB

86
RADIATION DOSE ENHANCEMENT USING GOLD NANOPARTICLES WITH A DIAMOND LINEAR ACCELERATOR TARGET: A MULTIPLE CELL TYPE ANALYSIS
Olivia Piccolo1, Michael Ha1, James Robar1, John Lincoln1, Nicole Melong2, Jason Berman2, Nick Fernandez3, Benno Orr3, Jennifer Borsavage1
1Dalhousie University, Halifax, NS
2University of Ottawa, Ottawa, ON
3University of Toronto, Toronto, ON

87
PATIENT REPORTED OUTCOMES DURING HEAD AND NECK CANCER RADIOTHERAPY USING THE MD ANDERSON SYMPTOM INVENTORY- HEAD AND NECK MODULE (MDASI-HN)
Eric Tran1, Sonya Lam1, Sarah Hamilton1, Jonn Wu1, Eric Berthelet1, Matthew Chan1, Sheena Sibug1, Paul Willinsky1, Vincent Lapointe1, Jeremy Hamm1, Robert Olson2
1University of British Columbia, Vancouver, BC
2University of British Columbia, Prince George, BC

88
OUTCOMES OF RADIOTHERAPY ALONE FOR LOCALLY ADVANCED NON-SMALL CELL LUNG CANCER (LA-NSCLC) IN PATIENTS UNFIT FOR CHEMO-RADIOTHERAPY
Mohammad Gouran-savadkoohi, Greg Pond, Kimmen Quan, Aruz Mesci, Anand Swaminath, Gordon Okawara, Derek Ribeiro, Tom Chow, James Wright, Theos Tsakiridis
McMaster University, Hamilton, ON

89
THE RADIATION INCIDENT SAFETY COMMITTEE INCIDENT REPORTING GUIDANCE TREE: A TOOL TO AID PROVINCIAL AND NATIONAL INCIDENT SHARING
Cassandra Costello-Cornfield1, Erika Hammer2, Tom Farrell3, Josef Dubicki4, Sara Kaune5, Julie Kraus2, Brian Liszewski4, Lyndon Morley5, Gabe Menjolian7, Ernest Osei6, Leah Wolfe6, Lisa Palmer6
1Simcoe Muskoka Regional Cancer Centre, Barrie, ON
2Odette Cancer Centre, Toronto, ON
3McMaster University, Hamilton, ON
4Ontario Health, Toronto, ON
5Princess Margaret Cancer Centre, Toronto, ON
6Grand River Hospital, Kitchener, ON
7Juravinski Cancer Centre, Hamilton, ON
90
AN INTERPRETABLE QUANTUM NEURAL NETWORK TO DIFFERENTIATE BETWEEN LARGE BRAIN METASTASES AND HIGH-GRADE GLIOMA USING QUANTUM-INFORMED MRI RADIOMIC FEATURE SELECTION
Tony Felefly1, Camille Roukoz1, Georges Fares1, Samir Achkar2, Sandrine Yazbek3, Manal Kordahi4, Fares Azoury1, Dolly Nasr1, Elie Nasr1, Georges Noël5, Ziad Francis1
1Hôtel-Dieu de France Hospital, Saint Joseph University, Lebanon, BEY
2Gustave Roussy, Paris Saclay University, Villejuif, FR
3University of Maryland, Baltimore, MD
4Institut National de Pathologie, BEY
5Institut de Cancérologie Strasbourg Europe (ICANS), UNICANCER, Paul Strauss Comprehensive Cancer Center, Strasbourg, FR

91
PREDICTABILITY OF POST-NEOADJUVANT CHEMOTHERAPY MRI FOR PATHOLOGICAL COMPLETE RESPONSE IN TRIPLE NEGATIVE AND HER2 POSITIVE BREAST CANCERS
Libby Ben-Zvi, Constanza Martinez, Sarkis Meterissian, Christine Lambert, Tarek Hijal
McGill University, Montreal, QC

92
[177LU]DOTA-TATE AS FIRST-LINE THERAPY FOR PATIENTS WITH GRADE 2 AND 3 ADVANCED GASTROENTEROPANCREATIC NEOENDOCRINE TUMOURS (GEP-NETS): THE NETTER-2 STUDY
Sten Myrehaug1, Simron Singh1, Marianne Pavel2, Pamela Kunz3, Wouter de Herder4, Ken Herrmann5, Anthony D’Amelio Jr6, Paola Santoro6, Ilya Folitar7, Diego Ferone8
1University of Toronto, Toronto, ON
2FAU Erlangen-Nürnberg, Erlangen, DE
3Yale School of Medicine, New Haven, CT
4Erasmus University, Rotterdam, NL
5Universitätsklinikum Essen, Essen, DE
6Novartis Pharmaceuticals Corporation, East Hanover, NJ
7Advanced Accelerator Applications, a Novartis company, Geneva, CH
8University of Genova, Genova, CH

93
AN EXPLORATION OF RADIATION-INDUCED SIDE EFFECTS FOR PALLIATIVE PATIENTS TREATED WITH VOLUMETRIC MODULATED ARC THERAPY VERSUS CONVENTIONAL RADIOTHERAPY TO THE SPINE
Asvena Sriharan1, Charles Cho1, John San Miguel2, Zishan Allibhai1, Natalie Rozanec1
1University of Toronto, Toronto, ON
2Southlake Regional Health Centre, Newmarket, ON

94
A PROSPECTIVE SINGLE CANADIAN STUDY FOR TARGETED INTRAOPERATIVE RADIOTHERAPY (TARGIT) DURING BREAST-CONSERVING SURGERY FOR PATIENTS WITH EARLY-STAGE BREAST CANCER
Constanza Martinez, Tarek Hijal, Sarkis Meterissian, Valerie Panet-Raymond, Christine Lambert, Asma Saidi, Marc David, David Fleiszer, Francine Tremblay, Ari Meguerditchian
ADVANCED RADIATION ONCOLOGY LEARNING MODULES WITHIN THE INTERACTIVE SMARTPHONE APPLICATION: "THE RAD ONC HANDBOOK"
Benson Wan, Ian J. Gerard, Vanessa Di Lalla, Sonia Skamene, Joanne Alfieri
McGill University, Montreal, QC

A 20-YEAR REVIEW OF THE ONTARIO RADIATION THERAPY ACCESS TO CARE CRISIS: LESSONS APPLIED TO THE COVID-19 PANDEMIC
Gunita Mitera
University of Toronto, Toronto, ON

BARRIERS TO ACCESS PALLIATIVE RADIATION TREATMENT IN PROSTATE CANCER: A POPULATION BASED STUDY
Alborz Jooya, Danial Qureshi, Jennifer Leigh, Colleen Webber, Peter Tanuseputro, Michael Ong, Jean-Marc Bourque, Scott Morgan, Robert MacRae
The Ottawa Hospital, Ottawa, ON

SUSTAINABLE REMOTE WORK FOR RADIATION THERAPISTS: IMPLEMENTATION IN A LARGE URBAN RADIATION THERAPY CENTRE
Christine Hill, Lorella Divanbeigi, Veng Chhin, Ryan Hyvarinen, Nareesa Ishmail, Tatiana Ritchie, Angela Cashell, Lyndon Morley, Zaynab Muraj, Jerry Roussos, Andrea Shessel, Michael Velec, Tara Rosewall
Princess Margaret Cancer Centre, Toronto, ON

INTENSITY-MODULATED RADIATION THERAPY WITH STEREOTACTIC BODY RADIATION THERAPY BOOST FOR UNFAVOURABLE PROSTATE CANCER: FVIE-YEAR OUTCOMES
Michael Carrasquilla1, Tamir Sholklapper1, Nicole Hodgins1, Alan Zwart1, Malika Danner1, Grecia Bolanos1, Marilyn Ayoob1, Thomas Yung1, Deepak Kumar2, Nima Aghdam3, Brian Collins1, Ryan Hankins1, Simeng Suy1, Sean Collins1
1Georgetown University Hospital, Washington, D.C.
2North Carolina Central University, Durham, NC
3Beth Israel Deaconess Medical Center, Boston, MA

ENDOBRONCHIAL IMPLANTED REAL-TIME RADIOFREQUENCY (RF) TRANSPONDER BEACON GUIDED, RESPIRATORY-GATED, STEREOTACTIC BODY RADIOTHERAPY FOR MOVING LUNG TUMOURS: INTERIM ANALYSIS OF A PROSPECTIVE PHASE I/II COHORT STUDY
Jui Chih Cheng1, Sankar Venkataraman2, Naseer Ahmed2, Lawrence Tan1, Biniam Kidane1, David Sasaki2, Shrinivas Rathod2, Gokulan Sivananthan2, Rashmi Koul2, Ahmet Leylek2, Jim Butler2, Boyd McCurdy2, Ralph Wong2, Julian Kim2
1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB
101
SALVAGE PROSTATE BRACHYTHERAPY IN RADIORECURRENT PROSTATE CANCER: AN INTERNATIONAL DELPHI CONSENSUS STUDY
Gerard Morton1, Hans T. Chung1, Mark T. Corkum2, Mark Buuyounouski3, Albert Chang4, Peter Chung5, Brett Cox6, Juanita Crook7, Brian Davis8, Steven Frank9, Iván Henriquez10, Eric Horwitz11, Peter Hoskin12, I-Chow Hsu13, Mira Keyes14, Martin King15, Marissa Kollmeier16, Daniel Krauss17, Andrzej Kukielka18, Peter Orio15, Bradley Pieters19, Louis Potters20, Peter Rossi21, Timothy Showalter22, Abhishek Solanki23, Danny Song24, Ben Vanneste25, Eric Vigneault26, Piotr Wojcieszek27, Michael Zelefsky16, Mitchell Kamrava28
1 Odette Cancer Centre, Toronto, ON
2The Ottawa Hospital, Ottawa, ON
3Stanford University, Palo Alto, CA
4University of California, Los Angeles, CA
5Princess Margaret Cancer Centre, Toronto, ON
6Rush University Medical Center, Chicago, IL
7University of British Columbia, Kelowna, BC
8Mayo Clinic, Rochester, MN
9MD Anderson Cancer Centre, Houston, TX
10Hospital Universitario Sant Joan, Reus, SP
11Fox Chase Cancer Center, Philadelphia, PA
12Mount Vernon Hospital, Northwood, UK
13University of California San Francisco, San Francisco, CA
14University of British Columbia, Vancouver, BC
15Harvard University, Boston, MA
16Memorial Sloan Kettering Cancer Center, New York City, NY
17Beaumont, Royal Oak, MI
18Ludwik Rydygier Memorial Hospital, Krakow, PL
19Amsterdam UMC - Vrije University Medical Center, Amsterdam, NL
20Northwell Health, Lake Success, NY
21Valley View Hospital, Glenwood Springs, CO
22University of Virginia, Charlottesville, VA
23Loyola University, Chicago, IL
24Johns Hopkins University, Baltimore, MD
25Maastricht University Medical Centre, Maastricht, NL
26CHU de Québec-Université Laval, Quebec City, QC
27Maria Skłodowska-Curie National Research Institute of Oncology (MSCNRIIO), Gliwice, PL
28Cedars Sinai, Los Angeles, CA

102
THE PROGNOSTIC VALUE OF 18F-FDG PET/CT PARAMETERS IN PATIENTS WITH SQUAMOUS CELL CARCINOMA OF THE ANAL CANAL TREATED WITH DEFINITIVE RADIO-CHEMOTHERAPY: A 10-YEAR RETROSPECTIVE ANALYSIS
Patrick Martin, Laurence Bernier
CHU de Québec-Université Laval, Québec, QC
103
THE IMPACT OF IMRT ON OUTCOMES IN THE PRIMARY TREATMENT OF CERVICAL CANCER: A SINGLE INSTITUTION EXPERIENCE
Bayan Malakouti-Nejad, Ege Babadagli, Rajiv Samant
The Ottawa Hospital, Ottawa, ON

104
EVALUATION OF POST-TREATMENT PET SCANS FOR CERVICAL CANCER
Negin Shahid1, Andrew Bang2, Rolf Tonseth3, Abraham Alexander1, Celine Laumont1, Caroline Holloway1
1British Columbia Cancer Agency, Victoria, BC
2British Columbia Cancer Agency, Vancouver, BC
3University of British Columbia, Victoria, BC

105
THE DOSIMETRIC UNDERPINNING OF BLADDER FILLING CRITERIA FOR PROSTATE IGRT
Jennifer Dang, Vickie Kong, Vanessa Wan, Tara Rosewall
Princess Margaret Cancer Centre, Toronto, ON

106
FENDING FOR FAMILIES: CHARACTERIZING THE NEED FOR CHILDCARE SUPPORT FOR CANCER PATIENTS
Katherine Preston1, Mackenzie MacDonald2, Paris-Ann Ingledew1
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC

107
PREVALENCE OF OLIGOMETASTASES AT INITIAL STAGING OF NEUROENDOCRINE TUMOURS? - A 68GA DOTATATE PET (GA68PET) POPULATION-BASED REGISTRY ESTIMATE
Sarah Murad1, Rebecca Wong2, James Brierley2, Claudia Ortega2, Roshini Kulanthaivelu2, Ricarda Hinzpeter2, Douglas Hussey2, Julia Duder3, Ur Metser2
1University of Toronto, Toronto, ON
2University Health Network, Toronto, ON
3Royal College of Surgeons Ireland, Dublin, IE

108
EARLY CLINICAL EFFECTIVENESS, TOXICITY, AND QUALITY OF LIFE OUTCOMES OF MAGNETIC RESONANCE IMAGING-GUIDED STEREOTACTIC ABLATIVE RADIOThERAPY: A SYSTEMATIC REVIEW
R. Gabriel Boldt1, Hanbo Chen2, Alexander V. Louie2, Amir H. Safavi2, Anna M.E. Bruynzeel3, Frank J. Lagerwaard3, Suresh Senan3
1London Health Sciences Centre, London, ON
2University of Toronto, Toronto, ON
3VU University Medical Center, Amsterdam, NL
PROSTATE CANCER-SPECIFIC DEATH RATES IN LOCALIZED PROSTATE CANCER: DATA FROM TWO RANDOMIZED TRIALS
Abdenour Nabid1, Nathalie Carrier1, Eric Vigneault2, Peter Vavassis3, Marc-André Brassard4, Boris Bahoric5, Robert Archambault6, François Vincent7, Redouane Bettahar8, Derek Wilke9, Thu Van Nguyen5, André-Guy Martin2, Jean-Paul Bahary5, Marie Duclos10, Sylvie Vass4, Luis Souhami10
1Université de Sherbrooke, Sherbrooke, QC
2CHU de Québec-Université Laval, Québec, QC
3Université de Montréal, Montréal, QC
4Centre de Santé et de Services Sociaux de Chicoutimi, Chicoutimi, QC
5Université de Montréal, Montréal, QC
6Hôpital de Gatineau, Gatineau, QC
7Centre Hospitalier Régional de Trois-Rivières, Trois-Rivières, QC
8CSSS de Rimouski, Rimouski, QC
9Nova Scotia Cancer Centre, Halifax, QC
10McGill University, Montréal, QC

ACCESS AND EQUITY: AN INTER-INSTITUTIONAL COMPARISON OF RADIOTHERAPY PLANNING AND DELIVERY
Adam Mutsaers1, Aliaa Abdelmeguid1, Gaurav Chahal1, Rachel Bai1, Mila Gracic1, Lise Wolyniuk1, Daniel Palhares2, Gregory Czarnota2, Robert Dinniewell1
1Western University, London, ON
2University of Toronto, Toronto, ON

INDIVIDUALIZED PREDICTION OF DISTANT METASTASES RISK IN ORAL CAVITY CARCINOMA: A VALIDATED PREDICTIVE-SCORE MODEL
Badr Id Said1, Fatimah A. Alfaraj2, Gustavo N. Marta3, Luiz P. Kowalski4, Shao Hui Huang1, Jie Su1, Wei Xu1, Fabio Y. Moraes5, Ezra Hahn1, Lawson Eng1, John J. Kim1, Jolie G. Ringash1, John Waldron1, Eitan Prisman6, Jonathan C. Irish1, Christopher M.K.L Yao1, John R. de Almeida1, David P. Goldstein1, Andrew Hope1, Ali Hosni1
1University of Toronto, Toronto, ON
2University of British Columbia, Prince George, BC
3Hospital Sírio-Libanês, São Paulo, BR
4University of São Paulo Medical School, São Paulo, BR
5Queen’s University, Kingston, ON
6University of British Columbia, Vancouver, BC
AN"EARLY ADOPTER" OF CPQR'S PATIENT REPORTED OUTCOME (PRO) INITIATIVE: LESSONS LEARNED THROUGH IMPLEMENTATION OF AN ELECTRONIC PRO PLATFORM ACROSS A MULTICENTER RADIATION ONCOLOGY DEPARTMENT

Carol-Anne Davis¹, Natasha McMaster¹, Marianne Arab², Thomas Ashford², Sue Chisholm², Michael Ha¹, Charlene Rodriguez¹, Randy McKnight², Murali Rajaraman¹, Rob Rutledge¹, Derek Wilke¹, Amanda Caissie¹
¹Dalhousie University, Halifax, NS
²Nova Scotia Health Authority, Halifax, NS

CAN CT-BASED CALCIUM SCORES PREDICT CARDIAC DEATHS IN BREAST CANCER PATIENTS TREATED WITH RADIOTHERAPY? A POPULATION BASED CASE-CONTROL STUDY

Jari Ullah, Waseem Sharieff
University of British Columbia, Abbotsford, BC

PERSPECTIVES OF PATIENTS WITH METASTATIC LUNG CANCER ON SYMPTOM SCREENING AND UTILIZATION OF PATIENT-REPORTED OUTCOMES DATA FOR PATIENT EDUCATION

Amir H. Safavi¹, Emily Bryson¹, Victoria Delibasic², Frances C. Wright², Ambica Parmar², Natalie Coburn², Alexander V. Louie¹
¹University of Toronto, Toronto, ON
²Sunnybrook Health Sciences Centre, Toronto, ON

A RETROSPECTIVE ON A CAREER AS A RADIATION ONCOLOGIST: A QUALITATIVE STUDY

Mornisha Panchalingam, Rajiv Samant, Sophie Lebel, Jean-Marc Bourque
University of Ottawa, Ottawa, ON

DYSPNEA IN PATIENTS WITH STAGE IV NON-SMALL CELL LUNG CANCER: A POPULATION-BASED ANALYSIS OF DISEASE BURDEN AND PATTERNS OF CARE

Michael Yan¹, Michael Tjong¹, Wing Chan², Gail Darling¹, Victoria Delibasic³, Laura Davis³, Mark Doherty⁴, Julie Hallet⁵, Biniam Kidane⁵, Alyson Mahar⁵, Nicole Mittmann⁶, Ambika Parmar¹, Vivian Tan⁷, Hendrick Tan⁸, Frances Wright¹, Natalie Cobourn¹, Alexander Louie¹
¹University of Toronto, Toronto, ON
²Institute for Clinical Evaluative Sciences, Toronto, ON
³Sunnybrook Research Institute, Toronto, ON
⁴St. Vincent's Hospital Group, Dublin, IE
⁵University of Manitoba, Winnipeg, MB
⁶Canadian Agency for Drugs and Technology in Health, Ottawa, ON
⁷University of Western Ontario, London, ON
⁸GenesisCare, Perth, AU
117
FRAMELESS COBALT60-BASED HYPOFRACTIONATED STEREOTACTIC RADIOSURGERY (HSRS) FOR BRAIN METASTASES: IMPACT OF DOSE AND VOLUME
Michael Yan, Michael Wang, Lori Holden, Michael Tjong, Collins Yeboah, Mark Ruschin, Jay Detsky, Chia-Lin Tseng, Eshetu Afenatu, Sten Myrehaug, Nir Lipsman, Sunit Das, Chris Heyn, Pejman Maralani, Hany Soliman, Arjun Sahgal, Zain Husain
University of Toronto, Toronto, ON

118
THE IMPACT OF TUMOUR SPECIFIC GROWTH RATE AS A PREDICTOR OF SURVIVAL IN OLIGO-PROGRESSIVE DISEASE TREATED WITH STEREOTACTIC BODY RADIOTHERAPY
Inmaculada Navarro, Joelle Helou, Subin Kuruvilla Thomas, Andrew Hope, Aisling Barry
University of Toronto, Toronto, ON

119
HIGH-QUALITY DNA EXTRACTION AND GUT MICROBIAL DETECTION TO EVALUATE PATHOLOGIC RESPONSE FOLLOWING NEOADJUVANT TREATMENT FOR LOCALLY ADVANCED RECTAL CANCER
Daegan Sit1, Kinga Vojnits2, Hang Yang1, Ko Ta Chen1, Billy Zhao1, Sanjay Rao2, Lik Hang Lee1, Janine Davies1, Hui-Min Yang1, Sepideh Pakpour2, Siavash Atrchian2
1University of British Columbia, Vancouver, BC
2University of British Columbia, Kelowna, BC

120
IMPACT OF THE COVID-19 PANDEMIC ON CANADIAN RADIATION ONCOLOGY PRACTICES
Corinne M. Doll1, Daniel V. Wakefield2, Jolie Ringash3, Paris-Ann Ingledew4, Laura A. Dawson3, Thomas Eichler5, David S. Schwartz2
1University of Calgary, Calgary, AB
2University of Tennessee, Nashville, TN
3University of Toronto, Toronto, ON
4University of British Columbia, Vancouver, BC
5Virginia Commonwealth University, Richmond, VA

121
OPTIMIZING RADIATION THERAPY DATA SUBMISSIONS THROUGH CARE PLANS: IMPLICATIONS FOR FUNDING
James Loudon1, Edwin Chan2, Shaziya Malam2, Faye Hurtubise2, Ivan Yeung1, Charles Cho1, Woodrow Wells1
1University of Toronto, Newmarket, ON
2Southlake Regional Health Centre, Newmarket, ON
122
ASSESSMENT OF THE USAGE OF HYPOFRACTIONATION FOR PROSTATE CANCER IN AN LMIC BEFORE AND AFTER THE COVID-19 PANDEMIC
Rie Asso1, Horacio Patrocinio1, Paul Ramia1, Marcos Castilho2, Arthur Rosa3, Joao Luis Silva4, Fabio Cury1
1McGill University Health Centre, Montreal, QC
2Hospital Felicio Rocho, Belo Horizonte, BR
3Hospital Portugues, Salvador, BR
4Hospital Sírio-Libanês, Sao Paulo, BR

123
IMAGE-BASED MACHINE LEARNING CLASSIFIER TO PREDICT LUNG METASTASES TREATMENT: A FEASIBILITY STUDY
Hanin Afzal1, Srinivas Raman1, Caleb Kwon2, Christina Seo1, Areej Waqar3, Yiwen Xu1, Thomas Waddell1, Marcelo Cypel1, Meredith Giuliani1, Tony Tadic1, Timothy Chan1, Dionne Aleman1, Daniel Letourneau1
1University of Toronto, Toronto, ON
2Villanova University, Villanova, PA
3Princess Margaret Cancer Centre, Toronto, ON

124
CLINICAL IMPLEMENTATION OF HYPERARC FOR STEREOTACTIC RADIOSURGERY AT TRILLIUM HEALTH PARTNERS - CREDIT VALLEY HOSPITAL
Theodore Mutanga1, Yizhen Wang1, Julia Giovinazzo1, Heather Fineberg1, Raxa Sankreacha2, Anthony Brade2, Luluel Khan2
1Credit Valley Hospital, Mississauga, ON
2University of Toronto, Mississauga, ON

125
DAILY ASSESSMENT OF ON-TREATMENT TUMOUR REGRESSION BY CONE BEAM CT REVEALS PROGNOSTIC DYNAMIC BIOMARKERS IN NASOPHARYNGEAL CANCER
Eric Y. Zhao, Ahmad Bushehri, Biu Chan, Olive Wong, Jenny Lee, Tirth Patel, Sejin Kim, Ian King, Shao Hui Huang, John Cho, Ezra Hahn, Ali Hosni Abdalaty, John Kim, Jolie Ringash, Brian O'Sullivan, John N. Waldron, Jean-Pierre Bissonnette, Meredith E. Giuliani, Benjamin Haibe-Kains, Tony Tadic, Andrea McNiven, Andrew Hope, Scott V. Bratman
University of Toronto, Toronto, ON

126
A PROSPECTIVE COST COMPARISON BETWEEN HIGH-DOSE-RATE AND LOW-DOSE-RATE PROSTATE BRACHYTHERAPY
Albert Verbeek, Kevin Martell
University of Calgary, Calgary, AB
127
RADIATION-INDUCED SARCOMAS OF THE BREAST: A REVIEW OF A 20-YEAR SINGLE-CENTRE EXPERIENCE
Vanessa Di Lalla, Marwan Tolba, Farzin Khosrow-Khavar, Ayesha Baig, Carolyn Freeman, Valerie Panet-Raymond
McGill University, Montreal, QC

128
SEMINAL VESICLE TREATMENT FOR LOCALIZED PROSTATE CANCER TREATED WITH EXTERNAL BEAM RADIOTHERAPY
Tanner Steed, Nikki Chopra, Jihyun Yun, Jordan Hill, Sunita Ghosh, Nawaid Usmani, Ben Burke
University of Alberta, Edmonton, AB

129
THE EFFECTS OF A CURRICULUM CHANGE ON PEER MENTORSHIP AMONG RADIATION ONCOLOGY RESIDENTS
David Y. Mak, Janet Papadakos, Joanne Alfeiri, Jennifer Croke, Paris-Ann Ingledew, Shaun K. Loewen, Meredith Giuliani
1 University of Toronto, Toronto, ON
2 McGill University, Montreal, QC
3 University of British Columbia, Vancouver, BC
4 University of Calgary, Calgary, AB

130
ENGGING ONCOLOGISTS TO ADVANCE CANCER CARE: EVALUATION OF PROVINCIAL ENGAGEMENT INITIATIVE
Lauren Jadis, Andrea Pollock, Dan Le, Tamara Shenkier, Paris Ingledew
1 Simon Fraser University, Burnaby, BC
2 British Columbia Cancer Agency, Surrey, BC
3 British Columbia Cancer Agency, Vancouver, BC

131
FORECASTING INSTITUTIONAL LINAC UTILIZATION IN RESPONSE TO VARYING WORKLOAD
Srinivas Raman, Fan Jia, Zhihui Liu, Julie Wenz, Michael Carter, Colleen Dickie, Fei-Fei Liu, Daniel Letourneau
1 Princess Margaret Cancer Centre, Toronto, ON
2 University of Toronto, Toronto, ON

132
SALVAGE INTERSTITIAL BRACHYTHERAPY FOR TREATMENT OF RECURRENT ENDOMETRIAL CANCERS IN THE VAGINA: 7-YEAR SINGLE INSTITUTION EXPERIENCE
Marissa Sherwood, Hanbo Chen, Amandeep Taggar, Moti Paudel, Elizabeth A. Barnes, Liying Zhang, Eric Leung
University of Toronto, Toronto, ON
133
INTERVENTIONS TO SUPPORT NUTRITION IN PATIENTS UNDERGOING CONCURRENT CHEMORADIATION FOR ESOPHAGEAL CANCER: A SYSTEMATIC REVIEW OF RANDOMIZED TRIALS
Adam Mutsaers, David Palma, Lise Wolyniuk, Andrew Youssef
Western University, London, ON

134
THE RADIATION INCIDENT SAFETY COMMITTEE: SUPPORTING CANCER PROGRAMS IN THE DELIVERY OF HIGH QUALITY RADIATION TREATMENT
Brian Liszewski1, Tom Farrell2, Laura D'Alimonte3, Michelle Nielsen4, Natasha Moran4, Cassandra Costello6
1Ontario Health, Toronto, ON
2Juravinski Cancer Centre, Hamilton, ON
3Windsor Regional Cancer Centre, Windsor, ON
4Credit Valley Hospital, Toronto, ON
5Royal Victoria Hospital, Barrie, ON

135
VIRAL DISEASE GOES VIRAL: CHARACTERIZING HOW CANCER PATIENTS USE INTERNET RESOURCES FOR COVID-19 INFORMATION
Ruijia Jin1, Paris-Ann Ingledew2, Howard J Lim2, Sarah Hamilton2
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC

136
CANADIAN ONCOLOGY RESIDENTS' KNOWLEDGE OF AND ATTITUDES TOWARDS ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
Thomas Kennedy1, Laura Collie1, Jacqueline Nabhen2, Amir Safavi3, Michael Brundage1, Fabio Ynoe de Moraes1
1Queen's University, Kingston, ON
2Federal University of Paraná, Curitiba, BR
3University of Toronto, Toronto, ON

137
PEDIATRIC THYROID CANCER. CURRENT MANAGEMENT AND OUTCOMES. CROSS CANCER INSTITUTE ALBERTA CANADA
Susan Chafe, Julia Zebak, Edward Vaihenberg, Rose Girgis
University of Alberta, Edmonton, AB

138
UNILATERAL VERSUS BILATERAL RADIOTHERAPY FOR OROPHARYNGEAL CARCINOMA: IMPACT ON LONG TERM SYMPTOM BURDEN
Ionut Busca, John De Almeida, Shao Hui Huang, Jie Su, Wei Xu, Scott Bratman, John Cho, Meredith Giuliani, Ezra Hahn, Andrew Hope, John Kim, Brian O'Sullivan, Jolie Ringash, John Waldron, Ali Hosni
University Health Network, Toronto, ON
RADIOTHERAPY DOSE, FDG-PET UTILIZATION AND SURVIVAL OUTCOMES OF UNRESECTED LOCALLY ADVANCED NON-SMALL CELL LUNG CANCER (LA-NSCLC). ONTARIO POPULATION OUTCOMES OF CONTEMPORARY RADIOTHERAPY ALONE AND STANDARD OF CARE CHEMORADIENTHERAPY
Mohammad Gouran-savadkoohi, Aruz Mesci, Greg Pond, Anand Swaminath, Kimmen Quan, James Wright, Theos Tsakiridis
McMaster University, Hamilton, ON

PATIENT AND PROVIDER EXPERIENCE WITH A 7-DAY/WEEK RADIATION ONCOLOGY CARE MODEL DURING COVID-19
Judith Versloot, Christine Heidebrecht, Matthew Strang, Sameena Uddin, Jennifer Speziale, Gaylene Medlam, Kristal Bozzo, Raxa Sankreacha, Robert Reid, Anthony Brade
Trillium Health Partners, Toronto, ON

BRAIN METASTASIS HYPOFRACTIONATED STEREOTACTIC RADIOTHERAPY OUTCOME IN A SINGLE INSTITUTION
Ming Pan, Amber Shaheen, John Agapito, Khalid Hirmiz
Western University, Windsor, ON

ASSESSMENT OF INTRASECTION MOTION FOR SPINE AND NON-SPINE BONE METASTASES TREATED WITH IMAGE-GUIDED STEREOTACTIC ABLATIVE RADIOTHERAPY WITHOUT 6 DEGREES-OF-FREEDOM COUCH CORRECTION
Reno Eufemon Cereno, Quinn Bartlett, Michael Lamey, Derek Hyde, Benjamin Mou
British Columbia Cancer Agency, Kelowna, BC

RETROSPECTIVE CHART REVIEW OF CADIAC DOSE FOR EARLY-STAGE BREAST CANCER PATIENTS: AN ANALYSIS OF MEAN HEART DOSE AND TREATMENT VOLUME
Stephane Thibodeau, Samantha Sigurdson, Logan Montgomery, Tim Olding, Martin Korzeniowski
Queen's University, Kingston, ON

DOSIMETRIC EVALUATION OF A NEW RT TECHNIQUE COMBINING STEREOTACTIC BODY RADIOTHERAPY (SBRT) TO HDR INTERSTITIAL BRACHYTHERAPY (ISBT) AS BOOST FOR LOCALLY ADVANCED CERVICAL CANCERS
Donna H. Murrell, Quinn Sciberras, Douglas Hoover, David D'Souza, Vikram Velker, Lucas C. Mendez
London Health Sciences Centre, London, ON
145
RE-IRRADIATION FOR RECURRENT BRAIN A RETROSPECTIVE STUDY FROM A TERTIARY HOSPITAL IN SAUDI ARABIA
Hafiz Asif Iqbal
King Faisal Specialist Hospital and Research Centre, Jeddah, SAU

146
IMPACT OF TIMING OF ADJUVANT RADIOTHERAPY ON LOCO-REGIONAL CONTROL IN PATIENTS WITH HIGH-RISK ENDOMETRIAL CANCER
Omar Díaz1, Adrián Valles1, Luis E. Ayala1, Cipatli Olimón1, Francisco Saavedra1, José Rodríguez1, Enrique Gutierrez2
1University of Guadalajara, Guadalajara, MX
2University of Toronto, Toronto, ON

147
STRATEGIES FOR INCREASING ACCESS TO PALLIATIVE RADIATION THERAPY USING A CLINICAL SPECIALIST RADIATION THERAPIST-MEDIATED MODEL OF CARE: A CAMRT WHITE PAPER REVIEW
Carrie Lavergne1, Natalie (Presenting Author) Rozanec2, Nicole Harnett2
1Lakeridge Health Oshawa, Oshawa, ON
2University of Toronto, Toronto, ON

148
CLINICAL OUTCOMES AFTER SALVAGE TREATMENT WITH EXTERNAL BEAM RADIOTHERAPY COMBINED WITH INTERSTITIAL BRACHYTHERAPY FOR RECURRENT ENDOMETRIAL CANCER
Asmara Waheed, Robyn Banerjee, Sarah Quirk, Corinne Margaret Doll, Tien Phan, Michael Roumeliotis, Tyler Meyer, Philip McGeachy, Kevin Martell
University of Calgary, Calgary, AB

149
REVIEW OF 20 YEARS OF ADULT MEDULLOBLASTOMA TREATMENT AT A HIGH-VOLUME CENTER - CHEMOTHERAPY PRESCRIPTION TRENDS AND SURVIVAL
Marissa Sherwood1, Seth Climans2, Ronald Ramos2, Normand Laperriere2, Warren Mason2
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON

150
IMPACT OF CLINICAL TRIAL PARTICIPATION ON BIOCHEMICAL RECURRENCE IN PROSTATE CANCER PATIENTS TREATED WITH EXTERNAL BEAM RADIATION THERAPY
Danny Lavigne1, Rocco Simone Flammia2, Benedikt Hoeh3, Zhe Tian1, Fred Saad1, Umberto Anceschi2, Michele Gallucci2, Felix Preisser3, Philipp Mandel3, Felix K.H. Chun3, Pierre I. Karakiewicz1, Giula Delouya1, Daniel Taussky1
1Université de Montréal, Montreal, QC
2Sapienza Rome University, Rome, IT
3Goethe University Frankfurt am Main, Frankfurt am Main, DE
151
CLINICAL INNOVATION: INTEGRATION OF PATIENT PARTNERS WITHIN THE MULTIDISCIPLINARY ONCOLOGY TEAM
Israel Fortin, Mado Desforges, Marie-Andrée Côté, Benoit Laliberté, Danielle Charpentier, Sandie Oberoi, Cecile Vialaron, Monica Iliescu-nelea, Marie-Pascale Pomey
Université de Montréal, Montréal, QC

152
A FRAMEWORK FOR REAL-WORLD CLINICAL IMPLEMENTATION OF TECHNICAL INNOVATIONS IN RADIATION ONCOLOGY
Michelle Nielsen, Mikki Campbell, Claire McCann, Danny Vesprini, Stephen Breen, Steve Russel, Arjun Sahgal
Odette Cancer Centre, Toronto, ON

153
EVALUATING THE ONCOLOGY RESEARCH INTERNSHIP (ORION) DURING THE COVID-19 PANDEMIC: A COMPARISON OF VIRTUAL AND IN-PERSON ITERATIONS
Joanna Laba, Timothy Nguyen, Vikram Velker, Sondos Zayed, Christopher Goodman, Adam Mutsaers, David Palma
Western University, London, ON

154
THE ROLE OF CAPRA SCORE AS A PREDICTOR OF OUTCOMES IN HIGH-RISK PROSTATE CANCER PATIENTS TREATED WITH EBRT PLUS HDR BRACHYTHERAPY BOOST
Eric Vigneault+, Damien Carignan+, Sindy Magnan1, Philippe Després1, André-Guy Martin1, William Foster1, Marie-Claude Lavallée2, Sylviane Aubin1, Frédéric Lacroix1, Marie-Anne Froment2, Audrey Cantin1, Éric Poulin1, Brandon Morales1
1CHU de Québec-Université Laval, Québec, QC
2Universite de Laval, Québec, QC

155
CALCIFICATION AND IMAGE GUIDED RADIOTHERAPY FOR LOCALIZED HIGH-RISK PROSTATE CANCER
Sergio Faria, Marie Cuclos, Fabio Cury, Horacio Patrocinio, Luis Souhami
McGill University, Montreal, QC

156
POPULATION-BASED TREATMENT AND OUTCOMES FOR SQUAMOUS CELL CARCINOMA OF THE NASAL CAVITY
Sarah Hamilton1, Jason Liu2, Jonn Wu1, Matthew Chan1, Eric Tran1, Andrew Thamboo2, Connor Holmes1, Eric Berthelet1
1British Columbia Cancer Agency, Vancouver, BC
2University of British Columbia, Vancouver, BC
157
RADIATION ONCOLOGY RESIDENT PREFERENCES FOR VIRTUAL OR IN-PERSON TREATMENT PLANNING REVIEW AND TEACHING FORMAT
Conley Kriegler, Alysa Fairchild, Michael Zhu, Jordan Hill, Ananya Beruar, Sunita Ghosh, Diane Severin, Mustafa Al Balushi
University of Alberta, Edmonton, AB

158
USE OF RADIOTHERAPY, POST-OP CALCITONIN AND OUTCOME IN MEDULLARY THYROID CANCER AT A TERTIARY CARE CENTRE IN ATLANTIC CANADA
Murali Rajaraman, Kye Rajaraman, Emily Devereaux, S. Ali Imran
Dalhousie University, Halifax, NS

159
THE TRANSITION TO PRACTICE STAGE IN RADIATION ONCOLOGY: A PROPOSED CURRICULUM TO ADDRESS THE ADVANCED REQUIREMENTS FOR COMPETENCE
Vanessa Di Lalla, Joanne Alfieri
McGill University, Montreal, QC

160
SINGLE INSTITUTION EXPERIENCE WITH STEREOTACTIC ARRHYTHMIA RADIOABLATION FOR VENTRICULAR TACHYCARDIA
Ian J. Gerard, Martin Bernier, Tarek Hijal, Neil Kopek, Piotr Pater, Gabriela Stroian, Bruno Toscani, Joanne Alfieri
McGill University, Montreal, QC

161
ORGAN PERFORATION AND CLINICAL, DOSIMETRIC, AND TREATMENT OUTCOMES DURING IMAGE GUIDED CERVIX BRACHYTHERAPY
Alexa Dang1, Sarah Zehnder1, Katherine Sunderland2, Ryan Urban1, Peter Lim2, Beverly Lester3, Caroline Holloway4, Francois Bachand5, Sarah Hamilton1
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC
3British Columbia Cancer Agency, Abbotsford, BC
4British Columbia Cancer Agency, Victoria, BC
5British Columbia Cancer Agency, Kelowna, BC

162
OUTCOME OF LOCALLY ADVANCED HEAD AND NECK SQUAMOUS CELL CARCINOMA TREATED IN THE NEW ERA OF IMRT AND VMAT: A SINGLE INSTITUTION EXPERIENCE
Arash Algouneh, Ken Schneider, Kitty Huang, Ming Pan
University of Western Ontario, London, ON
163
THE ROLE OF VAGINAL VAULT BRACHYTHERAPY BOOST IN STAGE II ENDOMETRIAL CANCER
Jiheon Song, Tien Le, Krystine Lupe, Marc Gaudet, Rajiv Samant
The Ottawa Hospital, Ottawa, ON

164
INTERRUPTION OF CARE: AN IMPORTANT QUALITY METRIC IN CHEMO-RADIATION FOR
LOCALLY ADVANCED HEAD AND NECK SQUAMOUS CELL CANCERS (LASCCHN) IN SUB-SAHARAN
AFRICA
Chudi Obuba1, Chinelo onwualu-Chigbo1, Nwamaka Lasebikan1, Anuja Jhingran2, Rebecca KS
Wong3
1University of Nigeria Teaching Hospital, Enugu, NG
2The University of Texas MD Anderson Cancer Center, Houston, TX
3University of Toronto, Toronto, ON

165
UNANTICIPATED RADIATION REPLANNING FOR STAGE III NON SMALL CELL LUNG CANCER
Melinda Mushonga
University of Toronto, Toronto, ON

166
OPERATION OF INCIDENT LEARNING DURING THE COVID-19 PANDEMIC: A SINGLE CENTRE
EXPERIENCE
Matthew Volpini, Katie Lekx-Toniolo, Robert Mahon, Lesley Buckley
The Ottawa Hospital, Ottawa, ON

167
A RANDOMIZED CONTROLLED TRIAL OF PRE-OPERATIVE VERSUS POST-OPERATIVE
STEREOTACTIC RADIOSURGERY FOR PATIENTS WITH SURGICALLY RESECTABLE BRAIN
METASTASES
Subhadip Das1, Muhammad Faruqui1, Gregory Bowden2, Yves Starreveld1, John
Kelly1, John Amanie2, Alysa Fairchild2, Gerald Lim1, Shaun Loewen1, Robert Nordal1, Lindsay
Rowe2, Carla Wallace1, Samir Patel2
1University of Calgary, Calgary, AB
2University of Alberta, Edmonton, AB

168
IDENTIFICATION OF FACTORS ASSOCIATED WITH PROLONGED SURVIVAL IN PROSTATE CANCER
PATIENTS POST-RECEIPT OF PALLIATIVE RADIOTHERAPY TO A BONE METASTASIS: A
RETROSPECTIVE, POPULATION-BASED STUDY
Bindu Venugopal1, Shaheer Shahhat1, James Beck1, Nikesh Hanumanthappa2, Aldrich Ong1,
Arbind Dubey1, Rashmi Kou1, Bashir Bashir1, Amitava Chowdhury1, Gokulan Sivananthan1,
Julian Kim1
1University of Manitoba, Winnipeg, Manitoba
2University of Sheffield, Sheffield, UK
169
EFFECT OF SCAR BOOST ON LOCAL CONTROL OF LOCALLY ADVANCED BREAST CANCER
PATIENTS RECEIVING POMASTECTOMY RADIOTHERAPY
Ella Mae Cruz-Lim, Kathleen Baldivia
Metro Manila, Manila, PH

170
LONG-TERM OUTCOMES OF PRIMARY AND SECONDARY ANGIOSARCOMAS OF THE BREAST: A
20-YEAR SINGLE-CENTER EXPERIENCE
Marwan Tolba, Vanessa Di Lalla, Farzin Khosrow-Khavar, Ayesha Baig, Carolyn Freeman, Valerie
Panet-Raymond
McGill University, Montreal, QC

171
IMPACT OF QUALITY ASSURANCE AND FEEDBACK ON RADIOTHERAPY PRESCRIBING PRACTICES:
A RANDOMIZED CONTROLLED TRIAL
Andrea D'Angelo1, Gregory Arbour1, Theodora Koulis1, Jeremy Hamm2, Caroline Speers2,
Scott Tyldesley2, Caroline Lohrisch2, Alan Nichol2, Robert Olson3, Emily Yurkowski2, Scott
Matlock2, Adrienne Stedford2
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC
3British Columbia Cancer Agency, Prince George, BC

172
CARDIAC MIGRATION OF AN IMPLANTED HEPATIC FIDUCIAL MARKER USED FOR STEREOTACTIC
BODY RADIATION THERAPY
Youstina Soliman, Mark Vivian, Sankar Venkataraman, Maged Nashed
University of Manitoba, Winnipeg, MB

173
FINAL RESULTS OF AN INTERNATIONAL DELPHI CONSENSUS STUDY REGARDING THE OPTIMAL
MANAGEMENT OF RADIATION PNEUMONITIS
Indu Voruganti1, Cicely Cunningham2, Lorraine McLeod2, Stephen Harrow3, Alexander Louie4
1University of Toronto, Toronto, ON
2NHS Greater Glasgow and Clyde, Glasgow, SL
3NHS Lothian, Edinburgh, SL
4Odette Cancer Centre, Toronto, ON

174
INFLUENCE OF PALLIATIVE RADIOTHERAPY ON TOXICITY AND SURVIVAL IN PATIENTS TREATED
WITH RADIIUM-223 DICHLORIDE FOR METASTATIC CASTRATE-RESISTANT PROSTATE CANCER
Cédric Charrois-Durand, Guila Delouya, Daniel Taussky, Maroie Barkati, Fred Saad, Jean-
Baptiste Lattouf, Paul Perrotte, Pierre Karakiewicz, Denis Soulières, Normand Blais,
Zineb Hamilou, Daniel Juneau, Nicolas Plouznikoff
Centre Hospitalier de l'Université de Montréal, Montreal, QC
DEVELOPING A VIRTUAL REALITY SIMULATOR FOR CERVICAL CANCER BRACHYTHERAPY PROCEDURES: A STEP TOWARDS THE FUTURE OF HANDS-ON TRAINING
Mustafa Al Balushi, Lesley Baldwin, Fleur Huang, Ericka Wiebe, Julie Cuartero, Nathanial Maeda, Yugmel Nijjar, Aswin Abraham, Geetha Menon
University of Alberta, Edmonton, AB

THE IMPACT OF ABDOMINAL COMPRESSION ON INTERNAL TARGET VOLUMES FOR PATIENTS UNDERGOING STEREOTACTIC ARRHYTHMIA RADIOABLATION FOR VENTRICULAR TACHYCARDIA
Ian J. Gerard, Martin Bernier, Tarek Hijal, Neil Kopek, Piotr Pater, Gabriela Stroian, Alfieri Joanne
McGill University, Montreal, QC

Withdrawn

ADJUVANT HYPOFRACTIONATED RADIOTHERAPY FOR HEAD AND NECK CANCER: A SYSTEMATIC REVIEW AND A SINGLE INSTITUTION EXPERIENCE
Anan Bamakhrama, Justin Lee
McMaster University, Hamilton, ON

THE EVOLUTION OF TECHNOLOGY IN THE MANAGEMENT OF EARLY-STAGE (T1) CANCER OF THE LARYNX, AN INSTITUTIONAL REVIEW OF RADIATION THERAPY OUTCOMES
Mohammad Gouran-savadkoohi1, James Wright1, Greg Pond1, Stephen Sagar1, Do-Hoon Kim1, Justin Lee1, Nhu-Tram Nguyen1, Chris DiFrancesco2
1McMaster University, Hamilton, ON
2Juravinski Cancer Centre, Hamilton, ON

TRIMODALITY IMAGING AND PREDICTIVE FACTORS OF RETROPHARYNGEAL LYMPH NODE METASTASES IN OROPHARYNGEAL CANCERS
Danny Lavigne1, Maîlys De-Meric-de-Bellefon2, Houda Bahig1, David Landry1, Manon Belair1, Laurent Létourneau-Guillon1, Edith Filion3, Félix-Phuc Nguyen-Tan1
1Université de Montréal, Montreal, QC
2University of Montpellier, Montpellier, FR

A REVIEW OF A STRUCTURED APPLIED PHYSICS COURSE FOR RADIATION ONCOLOGY AND RADIATION PHYSICS TRAINEES
May N. Tsao, Steven Babic, Andrea McNiven, Andrea Bezjak, Judith Balogh, Kathy Mah
University of Toronto, Toronto, ON
182
STAFF STRESS AT A CANADIAN CANCER CENTRE
Ege Babadagli1, Jiheon Song1, Jessica Chan2, Elisabeth Cisa-Paré3, Julie Renaud1, Katelyn Balchin1, Linda Bunch1, Joanne Meng1, Angela MacNeil1, Paul Wheatley-Price1, Ravij Samant1
1University of Ottawa, Ottawa, ON
2University of British Columbia, Vancouver, BC
3Northern Ontario School of Medicine, Thunder Bay, ON

183
PATIENT REPORTED CHANGE IN PAIN OUTCOME AMONG STAGE IV CANCER PATIENTS WITH BONE METASTASES AFTER PALIATIVE RADIOTHERAPY AT TIKUR ANBESSA SPECIALIZED HOSPITAL
Haimanot Kasahun Alemu
Saint Paul's Hospital Millennium Medical College, Addis Ababa, ET

184
STAFF SATISFACTION AT A CANADIAN CANCER CENTRE
Rajiv Samant1, Ege Babadagli1, Jiheon Song1, Jessica Chan2, Elisabeth Cisa-Paré3, Angela McNeil4, Joanne Meng1, Katelyn Balchin4, Julie Renaud4, Linda Bunch4, Paul Wheatley-Price1
1University of Ottawa, Ottawa, Ontario
2University of British Columbia, Vancouver, British Columbia
3Northern Ontario School of Medicine, Sudbury, Ontario
4The Ottawa Hospital, Ottawa, ON

185
STEREOTACTIC ARRHYTHMIA RADIOABLATION FOR VENTRICULAR TACHYCARDIA (STAR-VT): A SINGLE INSTITUTION, DOSE DE-ESCALATION, PHASE II TRIAL
Ian J. Gerard, Martin Bernier, Tarek Hijal, Neil Kopec, Piotr Pater, Gabriela Stroian, Joanne Alfieri
McGill University, Montreal, QC

186
DOSIMETRIC EVALUATION AND EFFICACY OF LINAC BASED STEREOTACTIC RADIOSURGERY IN BRAIN METASTASIS USING HYPERARC -VOLUMETRIC MODULATED ARC PLANNING EXPERIENCE OF A TERTIARY CARE CENTER OF PAKISTAN
Aqueel Shahid, Tabinda Sadaf
Shaukat Khanum Memorial Cancer Hospital and Research Center, Lahore, IN

187
USAGE OF REGULAR SAFETY SURVEYS TO EVALUATE AND STRENGTHEN SAFETY CULTURE IN THE RADIATION TREATMENT DEPARTMENT
Anishka Saldanha, Cassandra Costello, Patrick Quinn, Brandee Pidgeon, Tiffany Tam, Jenna King
Royal Victoria Regional Health Centre, Barrie, ON
CHOROID PLEXUS PAPILLOMA IN A ADULT: CASE REPORT
Victor Javier Vazquez Zamora
Instituto Mexicano del Seguro Social, Puebla, MX

ASSESSING THE LANDSCAPE IN MEDICAL ONCOLOGY MEDICAL EDUCATION SCHOLARSHIP: A SCOPING STUDY
Paris-Ann Ingledew1, Ruijia Jin2, Sean Addison3, Vanessa Kitchin2, Daniel Golden4, Vincent Tam5
1British Columbia Cancer Agency, Vancouver, BC
2University of British Columbia, Vancouver, BC
3British Columbia Cancer Agency, Victoria, BC
4University of Chicago, Chicago, IL
5University of Calgary, Calgary, AB