CARO ASM 2019 Schedule

Updated June 25, 2019

Wednesday October 2, 2019
Preconference Events

7:30-3:45 Resident Refresher Course
Acadia ABC
Facilitator: Jennifer Croke

Objectives: At the end of this session, learners will be able to:
• give an evidence-based overview on the indications for radiotherapy in paediatric malignancies, skin cancer and early-stage lung cancer;
• explore new paradigms for the delivery of SBRT in oligo-metastatic malignancies
• discuss the emerging role of Immunotherapy;
• understand key concepts related to treatment planning, plan evaluation and image guidance.

7:30-8:00 Breakfast and Registration

8:00-8:15 Welcome and Introduction

8:15-9:00 Paediatrics
Derek Tsang

9:00-9:45 Skin
Lara Best

9:45-10:05 Refreshment Break

10:05-10:50 SBRT Lung
Colin Brown

10:50-11:35 Immunotherapy
Stephanie Snow

11:35-1:00 Lunch/Resident Meeting

1:00-3:00 Plan Evaluation and IGRT
Trish Daigle Maloney, Carol-Anne Davis, Hanna Dahn, Alasdair Syme

3:00-3:45 Management of Oligometastases
Alexander Louie

4:30-6:00 Resident Career Counselling Social Event
2 Doors Down
1533 Barrington St
902-422-4224

6:00-9:00 CARO Board Meeting
Annapolis
Thursday October 3, 2019

7:00-8:00  Breakfast and Registration
           NS Foyer

7:00-8:00  Meet and Greet
           Sable ABC

8:00-8:15  Welcome and Introductions
           NS ABCD

8:15-9:45  Theme Symposium - National Multi-disciplinary Perspectives of Ablative Radiotherapy
           NS ABCD
           Moderators: Jennifer Croke, Lara Best

Objectives: At the end of this session, learners will be able to:
• provide an overview of current treatment planning practices for ablative radiotherapy;
• discuss current clinical application of ablative radiotherapy and future potential;
• describe treatment delivery considerations when applying ablative radiotherapy,
  including planning, image matching, patient education.

Top 10 lessons learned from SABR-COMET and COMET-10
David Palma

Difficulties enrolling into Clinical Trials when patients/doctors have already decided what they want
Devin Schellenberg

SRS/SRT and Automation
Chris Thomas

Immobilization, IGRT Issues, fiducial Issues and what we haven’t figure out about PTV margins
Horacio Patrocinio

Rapid Expansion of an SBRT Program Challenges
Darby Erler

Technical Challenges and Patient Considerations
Shannah Murland

Panel Discussion

9:45-10:30  Refreshment Break
            NS Foyer
10:30-11:30  CARO Lecture  
NS ABCD  
Introduction: Michael Brundage  

Title:  Robert Timmerman  

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

11:30-12:30  Resident Competition  
NS ABCD  
Facilitator: Robert Timmerman  

Objectives: At the end of this session, participant will be able to:  
• discuss Resident research projects in radiation oncology and physics across Canada.  

1  
THE EMERGING ROLE OF STEREOTACTIC ABLATIVE RADIOTHERAPY IN PRIMARY RENAL CELL CARCINOMA: A SYSTEMATIC REVIEW OF THE LITERATURE  
Rohann JM Correa¹, Shankar Siva², Gabriel Boldt¹, Nicholas Zaorsky³, Alexander V. Louie⁴  
¹London Health Sciences Centre, London, ON  
²Peter McCallum Cancer Centre, Melbourne, AU  
³Pennsylvania State University, Hershey, PA  
⁴University of Toronto, Toronto, ON  

2  
ACURA DRIVE: DEFINING RADIORECURRENT INTRAPROSTATIC TARGET VOLUMES  
Wei Liu¹, Hatim Fakir¹, Gurpreet Randhawa¹, Zahra Kassam¹, Hans T Chung², Peter Chung², Aaron Ward¹, Katherine Zukotynski³, Louise Emmett⁴, Glenn Bauman¹  
¹Western University, London, ON,  
²University of Toronto, Toronto, ON  
³McMaster University, Hamilton, ON  
⁴St. Vincent's Hospital, Sydney, AU  

3  
ELECTROMAGNETIC RECONSTRUCTION OF CATHETER PATHS IN BREAST BRACHYTHERAPY  
Harry Brastianos, Natasja Jensen, Tamas Ungi, Andras Lasso, James Gooding  
Queen's University, Kingston, ON  

4  
SAFETY AND EFFECTIVENESS OF STEREOTACTIC ABLATIVE RADIOTHERAPY FOR ULTRA-CENTRAL LUNG CANCER: A SYSTEMATIC REVIEW  
Hanbo Chen¹, Joanna Laba¹, Sondos Zayed¹, R. Gabriel Boldt¹, David Palma¹, Alexander Louie²  
¹Western University, London, ON  
²University of Toronto, Toronto, ON
5 PREDICTING RADIATION ADVERSE EFFECTS USING THREE-DIMENSIONAL DOSE AND FRACTIONATION DATA: RADIATION DERMATITIS
Andrew Lim, Kurian Joseph
University of Alberta, Edmonton, AB

6 NOVEL X-RAY ACTIVATED PHOTODYNAMIC (RADIOPDT) NANOPARTICLES FOR DEEP SEATED TUMOURS
Deepak Dinakaran, Hua Chen, Melinda Wuest, Frank Wuest, David Murray, Nawaid Usmani, Ravin Narain, John Lewis, Ronald Moore
University of Alberta, Edmonton, AB

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

2:30-3:30 Fellow Competition
NS AB
Facilitator:

Objectives: At the end of this session, learners will be able to:
- discuss Fellow research projects in radiation oncology and physics across Canada.

7 CARO ACURA 2013
MRI-GUIDED FOCAL SALVAGE HDR BRACHYTHERAPY FOR LOCALY RECURRENT PROSTATE CANCER
Lisa Joseph\textsuperscript{1}, Akbar Beiki-Ardakani\textsuperscript{1}, Robert Weersink\textsuperscript{1}, Alexandra Rink\textsuperscript{1}, Bernadeth Lao\textsuperscript{1}, Padraig Warde\textsuperscript{1}, Charles Catton\textsuperscript{1}, Andrew Bayley\textsuperscript{1}, Cynthia Menard\textsuperscript{2}, Joelle Helou\textsuperscript{1}, Alejandro Berlin, Aravind Sundaramurthy\textsuperscript{1}, Peter Chung\textsuperscript{1}
\textsuperscript{1}University of Toronto, Toronto, ON
\textsuperscript{2}University of Montreal, Montreal, QC

8 STEREOTACTIC BODY RADIOTHERAPY AND PRECISION HYPOFRACTIONATED RADIOTHERAPY VERSUS SURGERY FOR STAGE I NON-SMALL CELL LUNG CANCERS: AN 11-YEAR REVIEW OF A PROVINCIAL CANCER REGISTRY
Yizhou Zhao\textsuperscript{1}, Lucy Shiru Liu\textsuperscript{2}, Devin Schellenberg\textsuperscript{1}, Andra Krauze\textsuperscript{1}
\textsuperscript{1}University of British Columbia, Surrey, BC
\textsuperscript{2}University of British Columbia, Vancouver, BC

9 CARO ACURA
KNOWLEDGE-BASED PLANNING TO IMPROVE AND AUTOMATE PATIENT-SPECIFIC RADIOTHERAPY QUALITY ASSURANCE PROCEDURES IN CLINICAL TRIALS - SECONDARY ANALYSIS OF CCTG HN6
Srinivas Raman\textsuperscript{1}, Wendy Parulekar\textsuperscript{2}, Carrie-Lynne Swift\textsuperscript{1}, Robert Kosztyla\textsuperscript{1}, John Waldron\textsuperscript{3}, Jolie Ringash\textsuperscript{3}, Alysa Fairchild\textsuperscript{4}, Alexander Montenegro\textsuperscript{5}
\textsuperscript{1}University of British Columbia, Vancouver, BC
\textsuperscript{2}Queen's University, Kingston, ON
\textsuperscript{3}University of Toronto, Toronto, ON
\textsuperscript{4}University of Alberta, Edmonton, AB
\textsuperscript{5}Queen's University, Kingston, ON
10 THE IMPACT OF DOSE TO BLADDER NECK ON URINARY TOXICITY IN PATIENTS TREATED WITH HDR BRACHYTHERAPY BOOST FOR PROSTATE CANCER
Ibtihel Ben Aicha¹, Damien Carignan¹, André-Guy Martin¹, Philippe Després², William Foster¹, Marie-Claude Lavallée¹, Sylviane Aubin¹, Luc Beaulieu², Frédéric Lacroix¹
¹CHU de Québec-Université Laval, Québec, QC
²Université Laval, Québec, QC

11 PROSTATE BED TREATMENT INTENSIFICATION WITH LONG TERM ANDROGEN DEPRIVATION AND PELVIC NODAL RADIOTHERAPY IS EFFECTIVE AND WELL TOLERATED: RESULTS FROM THE MCGILL 0913 PHASE II CLINICAL TRIAL
Michael Kucharczyk, James MG Tsui, Boris Bahoric, Luis Souhami, Tamim Niazi
McGill University, Montreal, QC

12 IMPACT OF COMPLIANCE ON OUTCOMES FOR PATIENTS ON ACTIVE SURVEILLANCE FOR PROSTATE CANCER
Jay Detsky¹, Alireza Fotouhi Ghiam², Laurence Klotz¹, Stanley Liu¹, Andrew Loblaw¹, Danny Vesprini¹
¹University of Toronto, Toronto, ON
²University of Pennsylvania, Philadelphia, PA

Radiation Therapy Oral Session 1
NS CD
Facilitator:

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

13 COMPARISON OF FIDUCIAL MOTION IN LIVER STEREOTACTIC ABLATIVE RADIOTHERAPY (SABR) PATIENTS USING 4DCT, AND FLUOROSCOPY
Christine Rodgerson¹, Isaac Tai¹, Christina Cumayas¹, Alanah Bergman², Tania Karan², Marie-Laure Camborde², Emma Dunne³
¹British Columbia Cancer Agency, Vancouver, BC
²University of British Columbia, Vancouver, BC
³London, UK

14 CLINICAL OUTCOMES OF DEFINITIVE RADIATION THERAPY (RT) FOR OROPHARYNGEAL HEAD AND NECK SQUAMOUS CELL CARCINOMA (HNSCC) PATIENTS PLANNED WITH OR WITHOUT POSITRON EMISSION COMPUTER TOMOGRAPHY (PET-CT)
Carol-Anne Davis, Ameer Jarrar, Helmut Hollenhorst, Derek Wilke, Murali Rajaraman
Dalhousie University, Halifax, NS

15 LEARNING TOGETHER; ESTABLISHING A PROVINCIALLY INTEGRATED SYSTEM FOR INCIDENT REPORTING AND LEARNING
Kathryn Moran, Lara Best, Lisa Bourne, Tracy Day, Karyn Sutherland, Carolyn Fifield, Amanda Cherpak, Raymond Wright, Mammo Yewondwossen, Terra Thibault, Thomas Ashford, Murali Rajaraman, Nikhil Patil, Darrell Discher, Helmut Hollenhorst
Nova Scotia Health Authority, Halifax, NS
16
THE USE OF MRI-BASED CONTOUR IN ASSESSING THE IMPACT OF HYDROGEL SPACER ON RECTAL DOSIMETRY IN PROSTATE STEREOTACTIC RADIOTHERAPY
Vickie Kong, Noelia Salgado, Tim Craig, Lisa Joseph, Alejandro Berlin, Peter Chung
Princess Margaret Cancer Centre, Toronto, ON

17
DEVELOPMENT AND IMPLEMENTATION OF A GROUP PEER REVIEW PROCESS TO IMPROVE QUALITY CULTURE AND FULL PLAN REVIEW COMPLIANCE
Christine Baillie, Wladyslawa Cwajna, Tracy Day, Kerry Hanlon, Peilong Zhang, Carol-Anne Davis, Mammo Yewondwossed, Raymond Wright, Helmut Hollenhorst Dalhousie University, Halifax, NS

18
PILOT STUDY TO ASSESS SAFETY OF THE NOVEL CARA BREAST SUPPORT FOR SUPINE ADJUVANT BREAST RADIOTHERAPY
Erika Facchin1, Tara Menna1, Tania Arora1, Sheri Grahame1, Janet Yanchuk2, Leanna Drummond2, Peter Lim3, Christina Aquino-Parsons3, Mira Keyes3, Jacqueline Lam3, Theodora Kouilis4, Alan Nichol3, Elisa Chan3, Cheryl Duzenli3
1British Columbia Cancer Agency, Vancouver, BC
2British Columbia Cancer Agency, Kelowna, BC
3University of British Columbia, Vancouver, BC

3:30-4:30 Oral Session 1 – Genitourinary Cancer
NS AB
Facilitator:
Objectives: At the end of this session, learners will be able to:

19
STEREOTACTIC BODY RADIOTHERAPY FOR LARGE PRIMARY LARGE RENAL CELL CARCINOMA: A REPORT FROM THE INTERNATIONAL RADIOSURGERY ONCOLOGY CONSORTIUM FOR KIDNEY (IROCK)
Rohann J. M. Correa1, Shankar Siva2, Andrew Warner1, Michael Staehler3, Senthikumar Gandhihasan2, Lee Ponsky4, Rodney Ellis5, Irving Kaplan6, Anand Mahadevan7, William Chu8, Anand Swaminath9, Hiroshi Onishi10, Bin S. Teh11, Simon S. Lo12, Alexander Muacevic3, , Alexander V. Louie13
1London Health Sciences Centre, London, ON
2Peter McCallum Cancer Centre, Melbourne, AU
3University of Munich Hospitals, Munich, GER
4University Hospitals Seidman Cancer Center, Cleveland, OH
5Pennsylvania State University, State College, Pennsylvania, PA
6Beth Israel Deaconess Medical Center, Boston, MA
7Geisinger Health, Danville, Pennsylvania, PA
8Sunnybrook Health Sciences Centre, Toronto, ON
9Juravinski Cancer Centre, Hamilton, ON
10University of Yamanashi, Yamanashi
11Houston Methodist Hospital, Cancer Center, Houston, TX
12University of Washington School of Medicine, Seattle, WA
13University of Toronto, Toronto, ON
20 CARO ACURA
PRELIMINARY RESULTS OF A TWO STAGE PHASE II STUDY OF 18F-DCFPYL PET-MR FOR ENABLING OLIGOMETASTASES ABLATIVE THERAPY IN SUBCLINICAL PROSTATE CANCER
Rachel Glicksman, Nafisha Lalani
University of Toronto, Toronto, ON

21 THE ELDORADO STUDY: A PHASE II RANDOMISED STUDY OF CHEMO-RADIATION AND LONG-TERM ANDROGEN DEPRIVATION IN PATIENTS WITH HIGH-RISK PROSTATE CANCER. A RE-ANALYSIS OF THE PRIMARY ENDPOINT
Derek Wilke, Lori Wood, Helmut Hollenhorst, Robert Rutledge, David Bowes, Nikhilesh Patil, Tetteh Ago, Slawa Cwajna, Jean-Philippe Pignol
Dalhousie University, Halifax, NS

22 OUTCOMES AND PROFILES OF ELDERLY PATIENTS RECEIVING DEFINITIVE RADIOTHERAPY FOR MUSCLE-INVASIVE BLADDER CANCER AT A TERTIARY MEDICAL CENTER IN U.S.A.
Richard Choo1, Kimberly Gergelis1, Cole Kreofsky2, Christopher Choo3
1Mayo Clinic, Rochester, MN
2Bismarck Cancer Center, Bismarck, ND
3University of Minnesota, Minneapolis, MN

23 IMPACT OF CONCOMITANT MEDICATIONS ON OUTCOME IN PATIENTS WITH LOCALIZED PROSTATE CANCER TREATED WITH DOSE-ESCALATED EXTERNAL BEAM RADIOTHERAPY AND ANDROGEN DEPRIVATION THERAPY: A POOLED ANALYSIS OF TWO PROSPECTIVE TRIALS
Scott Morgan, Soumyajit Roy, Shawn Malone, Scott Grimes
University of Ottawa, Ottawa, ON

24 SUBSEQUENT ANDROGEN DEPRIVATION THERAPY AFTER INITIAL TREATMENT IN INTERMEDIATE RISK PROSTATE CANCER: PROSPECTIVE DATA FROM A PHASE III TRIAL
Abdenour Nabid1, Nathalie Carrier1, Eric Vigneault2, Thu Van Nguyen3, Peter Vavassis3, Marc-André Brassard1, Boris Bahoric3, Robert Archambault4, François Vincent3, Redouane Bettahar2, Derek Wilke5, Luis Souhami3, Abdenour Nabid1
1Université de Sherbrooke, Sherbrooke, QC
2Université Laval, Québec, QC
3Université de Montréal, Montréal, QC
4Université du Québec en Outaouais et Université McGill, Gatineau, QC
5Dalhousie University, Halifax, NS
Objectives: At the end of this session, learners will be able to:

25
STEREOTACTIC BODY RADIATION TREATMENT OF SYNCHRONOUS EARLY STAGE NON-SMALL CELL LUNG CANCERS
Jack Zheng, Ritika Hinduja, Jason Pantarotto, Graham Cook, Robert MacRae
University of Ottawa, Ottawa, ON

26
RADIATION-INDUCED BRAIN INJURY IN MENINGIOMA PATIENTS TREATED WITH PROTON OR PHOTON THERAPY
Jiheon Song1, Saif Aljabab2, Lulwah Abduljabar1, Yolanda Tseng3, Jason Rockhill3, James Fink3, Lynn Chang1, Lia Halasz3
1University of Ottawa Ottawa, ON
2Roswell Park Cancer Center, Buffalo, NY
3University of Washington, Seattle, WA

27
PROGNOSTIC ASSESSMENT OF INTERIM FDG-PET IN ESOPHAGEAL CANCER TREATED WITH CHEMORADIATION WITH OR WITHOUT SURGERY
Sophie Lavertu, Maroie Barkati, Sylvain Beaulieu, Jocelyne Martin, Marie-Pierre Campeau, David Donath, Ibtihel Ben Aicha, David Roberge
Université de Montréal, Montréal, QC

28
MRI-GUIDED BRACHYTHERAPY PLAN OPTIMIZATION WITH THREE VERSUS FOUR FRACTION TREATMENT FOR LOCALLY ADVANCED CERVICAL CANCER
Eric Leung1, Kathy Han1, Moti Paudel1, Kevin Martell1, Amandeep Taggar1, Lucas Mendez2, Toni Barnes1, Laura D’Alimonte1, Ananth Ravi1
1University of Toronto, Toronto, ON
2Western University, London, ON

29
BONE-ONLY DUAL-ENERGY STEREOSCOPIC X-RAY IMAGING FOR SPINE SBRT
Sahar Darvish-Molla1, Kathryn Moran2, Mike Sattarivand2
1Nova Scotia Health Authority, Halifax, NS
2Dalhousie University, Halifax, NS

30
RETROSPECTIVE EVALUATION OF THE EFFECTS OF INTEROBSERVER CONTOURING PRACTICES IN CLINICAL PRACTICE
Haley Patrick, Luis Souhami, John Kildea
McGill University, Montreal, QC

4:30-6:00
Mentoring
Acadia AB
Facilitator: Jennifer Croke
6:00-6:45 YoGo for RO (Yoga)
Acadia C

7:00 Welcome Reception – Alexander Keith’s Brewery
1496 Lower Water St.
Phone: 902-455-1474

Friday October 4, 2019

7:00-8:00 Breakfast and Registration
NS Foyer

8:00-9:00 Oral Session 3 – Stereotactic Radiosurgery
NS AB
Facilitator:

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

31 A MULTI-INSTITUTIONAL RETROSPECTIVE CLINICAL AND DOSIMETRIC ANALYSES
OF 1033 OLIGOMETASTATIC PATIENTS TREATED WITH SBRT FROM THE
CONSORTIUM FOR OLIGOMETASTASES RESEARCH - CORE
Ian Poon1, Darby Erler2, Roi Dagan3, Kristin Redmond4, Matthew Foote5, Serena
Badellino6, Tithi Biswas7, Umberto Ricardi6, Young Lee1, Arjun Saghal1
1University of Toronto, Toronto, ON
2Odette Cancer Centre, Toronto, ON
3University of Florida, Gainsville, FL
4John Hopkins, Baltimore, MD
5University of Queensland, Queensland, AU
6University of Torino, Torino, IT
7UH Cleveland Medical Center, Cleveland, OH

32 LONG TERM RESULTS OF 120 CASES OF VESTIBULAR SCHWANNOMA TREATED
WITH CYBERKNIFETM ROBOTIC STEREOTACTIC RADIOSURGERY AT THE
OTTAWA HOSPITAL CANCER CENTRE
Eduardo Gavioli, Jack Zheng, John Sinclair, Janos Szanto, Fahad Alkherayf, Julia
Malone, Vimoj Nair, Julie Gratton, Shawn Malone
The Ottawa Hospital Cancer Centre, Ottawa, ON

33 EFFICACITY AND TOXICITY OF STEREOTACTIC BODY RADIATION THERAPY FOR
LOCALIZED PROSTATE CANCER: AN ELEVEN YEAR STUDY
Alan Katz1, Josephine Kang2
1Flushing Cyberknife, Flushing, NY
2Cornell, New York, NY

34 DOSIMETRIC COMPARISON AND TOXICITY ANALYSIS OF STEREOTACTIC
RADIOThERAPY FOR HIGH-RISK PROSTATE CANCER
Laura Callan, Glenn Bauman, Jeff Chen, Michael Lock, Tracy Sexton, David D'Souza,
George Rodrigues
Western University, London, ON
35
PROSPECTIVE CASE SERIES IN THE USE OF ABDOMINAL AND PELVIC SBRT IN THE CONTEXT OF OLIGO-PROGRESSIVE DISEASE
Martin Doak, Rishi Sinha, Shaun Loewen, Robyn Banerjee, Petra Grendarova, Svetlana Kuznetsova
University of Calgary, Calgary, AB

36
EVALUATING RESPIRATORY MOTION OF THE BONY THORAX IN THE CONTEXT OF STEREOTACTIC BODY RADIATION THERAPY (SBRT): IS IT NECESSARY?
Darby Erler, Ian Poon, Patrick Cheung, Arjun Sahgal, Hany Soliman, Renee Korol
University of Toronto, Toronto, ON

Oral Session 4 – Dosimetry and Experimental
NS CD
Facilitator:

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

37
DEVELOPMENT OF AN IN VIVO RADIATION DOSIMETER FOR RADIOTHERAPY
Julien Mégourèche, Jack Sankey, Lilian Childress, Shirin A Enger
McGill University, Montréal, QC

38
EARLY DOSIMETRIC FINDINGS FROM THE LEARNING FROM ANALYSIS OF MULTICENTRE BIG DATA AGGREGATION (LAMBDA) CONSORTIUM
Amanda Caissie¹, Murali Rajaraman¹, Richard Popple², Mary Martel³, Clifton David Fuller³, Peter Balter³, Michelle Mierzwa³, Alexander Lin⁵, Ying Xiao⁵, Andrew McDonald⁵, Helen Fong¹, Heping Xu¹, Charles Mayo¹, Amanda Cherpak¹, John Yao⁴
¹Dalhousie University, Halifax, NS
²University of Alabama at Birmingham, Birmingham, AL
³MD Anderson Cancer Center, Houston, TX
⁴University of Michigan, Ann Arbor, MI
⁵University of Pennsylvania, Philadelphia, PA

39
DETERMINATION OF THE IMPACT OF INTRATUMOURAL HETEROGENEITY ON PROGNOSTIC BIOMARKERS IN LOCALIZED PROSTATE CANCER
Harry Brastianos¹, Jure Murgic², Adriana Salcedo², Melvin Chua², Alice Meng², Michael Fraser², Michael Brundage¹, Neil Fleshner², Theodorus van der Kwast³, Robert Bristow³
¹Queen's University, Kingston, ON
²University of Toronto, Toronto, ON
³The University of Manchester, Manchester, UK
CANAGLIFLOZIN, A NEW ANTI-DIABETIC AGENT TARGETING CELLULAR METABOLISM, SUPPRESSES SURVIVAL AND ENHANCES THE RESPONSE OF NON-SMALL CELL LUNG CANCER (NSCLC) TO RADIOTHERAPY
Olga-Demetra Biziotis¹, Evangelia - Evelyn Tsakiridis¹, Lindsay Broadfield¹, Thomas Farrell¹, Gabe Menjolian¹, Tammy Mathurin¹, Bassem Mekhaeil¹, Panagiotis Zacharidis¹, Paola Muti¹, Bassam Abdulkarim², Gregory Steinberg¹, Theodoros Tsakiridis¹
¹McMaster University, Hamilton, ON
²McGill University, Montreal, QC

PARTNERSHIP INITIATIVE FOR THE EVALUATION OF TECHNICAL INNOVATION IN RADIOTHERAPY (PERA): PILOT PERFORMANCE OF A NOVEL TRIAL METHODOLOGY
Cynthia Ménard¹, Philip Wong¹, Marie-Claude Beauchemin¹, Maroie Barkati¹, Guila Delouya¹, Daniel Taussky¹, Jean-Paul Bahary¹, Diane Trudel¹, Tibor Schuster², David Roberge¹
¹Centre Hospitalier de l’Université de Montréal (CHUM), Montreal, QC
²McGill University, Montréal QC

CIRCULATING TUMOUR CELLS PREDICT OUTCOME IN TRIMODALITY MANAGEMENT OF ADVANCED NON-METASTATIC ESOPHAGEAL CANCER
Edward Yu¹, Alison Allan¹, Michael Sanatani¹, Deb Lewis¹, Andrew Warner¹, Rashid Dar¹, Brian Yaremko¹, Joel Bierer¹, Lori Lowes¹, David Palma¹, Mark Vincent¹, George Rodrigues¹, Dalliah Fortin¹, Richard Inculet¹, Eric Frechette², Jeffery Law¹, Jacques Raphael¹, Jawaid Younus¹, Richard Malthaner¹
¹Western University, London, ON
²Sherbrooke University, Sherbrooke, QC

Using Community Consultation to Maintain Relevance and Promote Uptake of the Quality Assurance Guidelines for Canadian Radiation Treatment Programs: A Quality Improvement Process
Brian Liszewski¹, Erika Brown², Amanda Caissie³
¹University of Toronto, Toronto, ON
²CPQR, Red Deer, AB
³Dalhousie University, Saint John, NB

Learning Oncology Online: Patterns of Use of an Expanding Online Resource for Medical Students
Ge Shi¹, Tim Kong¹, Wynn Tran¹, Lisa Wang¹, Paris-Ann Ingledew²
¹University of British Columbia, Vancouver, BC
²British Columbia Cancer Agency, Vancouver, BC
45 BUILDING CLINICAL CONSENSUS AND KNOWLEDGE TRANSLATION AND EXCHANGE TO DRIVE QUALITY OF CARE FOR PATIENTS THROUGH THE DEVELOPMENT OF A PROVINCIAL RADIATION TREATMENT FUNDING MODEL
Farzana McCallum1, Eric Gutierrez1, Julie Himmelman1, Elaine Meertens1, Carina Simnieceanu1, Jonathan Wiersma2, Entela Zaffino1, Padraig Warde1
1Cancer Care Ontario, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON

46 EFFECTIVENESS OF PALLIATIVE HEMOSTATIC RADIOTHERAPY FOR HEMOPTYSIS: A PROSPECTIVE SINGLE ARM OBSERVATIONAL STUDY
Ionut Busca, Gaurav Bhattacharya, Kristopher Dennis, Kristopher Attwood, Saif Aljabab, Robert MacRae
University of Ottawa, Ottawa, ON

47 EFFECT OF AN ELECTRONIC QUALITY CHECKLIST ON PRESCRIPTION PATTERNS OF PROPHYLACTIC ANTIEMETICS AND PAIN-FLARE MEDICATIONS IN THE CONTEXT OF PALLIATIVE RADIOTHERAPY FOR BONE METASTASES
Kelly Linden, Marc Gaudet, Julie Renaud, Kristopher Dennis
University of Ottawa, Ottawa, ON

48 STEREOTACTIC BODY RADIOTHERAPY FOR NON-SPINE BONE METASTASES: AN INTERNATIONAL SURVEY OF PRACTICE PATTERNS
Timothy K. Nguyen1, Arjun Sahgal1, Lee Chin1, Chia-Lin Tseng1, Wietse Eppinga2, Matthias Guckenberger3, Jinho Kim4, Simon Lo5, Kristin Redmond6, Siva Shankar7, Bradley J Stish8
1Odette Cancer Centre, Toronto, ON
2University Medical Centre Utrecht, Utrecht, NL
3University of Zurich, Zurich, CH
4Seoul National University Hospital, Seoul, KR
5University of Washington School of Medicine, Seattle, WA
6Johns Hopkins University School of Medicine, Baltimore, MA
7Peter MacCallum Cancer Centre, Melbourne, AU
8Mayo Clinic, Rochester, MN

Oral Session 6 – Head and Neck and Breast Cancers
Facilitator:

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

49 CINE MRI-BASED ANALYSIS OF INTRA FRACTIONAL MOTION IN RADIATION TREATMENT PLANNING OF HEAD AND NECK CANCER PATIENTS
Yonatan Weiss, Lee Chin, Angus Lau, Zain Husain, Kevin Higgins, Danny Enepekides, Antoine Eskander, Ling Ho, Ian Poon, Irene Karam
University of Toronto, Toronto, ON
50 TREATMENT AND OUTCOMES IN PT4 WELL-DIFFERENTIATED THYROID CARCINOMA
Daegan Sit, Wexian Koh, Aria Shokoohi, Eric Tran, Eric Berthelet, Jonn Wu, Robert Olson, Sarah Hamilton
University of British Columbia, Vancouver, BC

51 PET SCAN ASSESSMENT OF RESPONSE 12 WEEKS POST RADICAL RADIOTHERAPY IN OROPHARYNX HEAD AND NECK CANCER: THE IMPACT OF P16 STATUS
Ryan Urban, Tassia Godoy, Robert Olson, Jonn Wu, Eric Berthelet, Eric Tran, Kimberly DeVries, Don Wilson, Sarah Hamilton
University of British Columbia, Vancouver, BC

52 BREAST TANGENT BEAM ENERGY AND LOCAL CONTROL AFTER BREAST-CONSERVING TREATMENT
Alan Nicholl1, Srinivas Raman1, Pauline Truong2, Lovedeep Gondara1, Caroline Speers1, Elisa Chan1, Eric Tran1, Vincent Lapointe1, Caroline Lohrisch1
1British Columbia Cancer Agency, Vancouver, BC
2British Columbia Cancer Agency, Victoria, BC

53 MICROMETASTATIC (PN1MI) BREAST CANCER: TREATMENT AND OUTCOMES IN COMPARISON TO PN0, PN0(I+) AND PN1A IN THE MODERN ERA
Maryam Dosani1, Sarah Hamilton2, Alan Nicholl2, Alan Nicholl2, Caroline Lohrisch2, Caroline Speers3, Rekha M Diocee3, Lovedeep Gondara3, Pauline Truong1
1University of British Columbia, Victoria, BC
2University of British Columbia, Vancouver, BC
3British Columbia Cancer Agency, Vancouver, BC

56 NUTRITIONAL RISK INDEX IN PATIENTS UNDERGOING CHEMORADIATION THERAPY FOR ORAL CAVITY AND OROPHARYNX CANCER
Justin Oh, Jonn Wu, Eric Berthelet, Eric Tran, Rob Olson, Angie Bowman, Cindy Reynolds, Sarah Hamilton
University of British Columbia, Vancouver, BC

10:00-11:00 Poster Viewing/Refreshment Break
Halifax Ballroom/NS Foyer

11:00-12:00 Poster Discussion 1
NS AB
Facilitator:

Objectives: At the end of this session, learners will be able to:
- discuss a variety of projects and research conducted by various disciplines in radiation oncology across Canada.

55 THE ADVANTAGES OF TRUS WHEN COMPARED TO CT PLANNING FOR HDR PROSTATE TREATMENT
Héloïse Lavoie-Gagnon, Frédéric Lacroix, Eric Poulin, André-Guy Martin, Laurie Pilote, Eric Vigneault, William Foster, Louis Archambault
Université Laval, Québec, QC
DON'T BE FAZED BY PHASE II: THE USE OF RANDOMIZED PHASE II TRIALS IN RADIATION ONCOLOGY
Adam Mutsaers, Christopher Goodman, Lucas Mendez
Western University, London, ON

LOCAL CONTROL FOLLOWING COMBINATION HYPOFRACTIONATED RADIOThERAPY AND PemBrolizumab in A PHASE II TRIAL OF RECURRENT OR METASTATIC ADENOid CYSTic CARCinoma PATients
Harvard University, Boston, MA

TARGETING AURORA KINASE TO ENHANCE THE CURATIVE POTENTIAL OF RADIOThERAPY IN HPV RELATED CANCERS
Naz Chaudary¹, Adi Idris², Nigel McMillian², Richard (Dick) Hill¹, Michael Milosevic¹
¹Princess Margaret Cancer Centre, Toronto, ON
²Griffith University, Gold Coast Campus, Queensland, AU

EFFECT OF MAGNETic FIELD DURING RADIOTherAPy ON DOUBLE-STRAND DNA BREAKS AND CELL PROLIFERATION ON PROSTATE, CERVICAL, AND BREAST CANCER CELLS
Deepak Dinakaran¹, Sarah Baker¹, Andrei Ghila¹, Zhighang Jin¹, Michael Hendzel¹, Gino Fallone², Robert Pearcey²
¹University of Alberta, Edmonton, AB
²Cross Cancer Institute, Edmonton, AB

OPIOID CONSUMPTION AND PAIN IN GYNECOLOGICAL CANCER PATIENTS THAT UNDERWENT SPINAL ANESTHESIA FOR INTERSTITIAL BRACHYTHERAPY
Gordon Locke¹, Lucas Mendez², Toni Barnes¹, Amandeep Taggar¹, Laura D’Alimonte¹, Stephen Choi¹, Eric Leung¹
¹University of Toronto, Toronto, ON
²Western University, London, ON

TREATMENT OF LOCOREGIONALLY ADVANCED LARYNGEAL CANCER: INSTITUTIONAL OUTCOMES OF PRIMARY SURGERY COMPARED TO PRIMARY RADIATION
Mitchell Cooper¹, Laura Callan¹, Tina Zhang¹, Hubert Low², David Yeh¹, Raksha Araslanova¹, Nancy Read³, David Palma³, Alexander Hammond³, Sarah Kuruvilla³, Eric Winquist³, Danielle MacNeil³, Kevin Fung³, John Yoo⁴, Anthony Nichols⁴, Varagur Venkatesan³
¹Western University, London, ON
²University of Sydney, Sydney, AU
³London Regional Cancer Centre Program, London, ON
⁴London Health Sciences Centre, London, ON
62
PRE-Radiotherapy Prostate Cancer Patient Empowerment Program (PC-PEP) - Results of a Feasibility Study
Gabriela Ilie, Greg Bailly, Ross Mason, David Bell, Ricardo Rendon, Melanie Keats, Scott Grandy, Joseph Lawen
Dalhousie University, Halifax, NS

63
Prostate and Catheter Motion in Prostate HDR Brachytherapy: From Operating Room to Shielded Delivery Vault
Che Hsuan David Wu, Kundan Thind, Siraj Husain, Elizabeth Watt
University of Calgary, Calgary, AB

64
Automatic Deep Learning Based Segmentation of Brain Metastasis on MPRAGE MR Images for Stereotactic Radiotherapy Planning
Allan Fong1, Nevin McVicar1, Allan Nichol1, Carrie-Lynne Swift1, Jordan Wong1, Carter Kolbeck2
1University of British Columbia, Vancouver, BC
2Limbus AI, Toronto, ON

Poster Discussion 2
NS CD
Facilitator:

Objectives: At the end of this session, learners will be able to:
- Discuss a variety of projects and research conducted by various disciplines in radiation oncology across Canada.

66
Salvage Reirradiation Using External Beam Radiotherapy for Local Failure in Prostate Cancer: A Systematic Review
Mark T. Corkum, David D'Souza, Joseph Chin, Gabe Boldt, Lucas C. Mendez, Glenn Bauman
London Health Sciences Centre, London, ON

67
Patient Engagement: A Pan-Canadian Survey of Radiotherapy Centres' Current Practices
Gabrielle Robin1, Erika Brown2, Carol-Anne Davis3, Louise Bird4, Lianne Wilson5, Ross Halperin6, Michael Brundage7, Jennifer Croke8 on behalf of CARO Quality and Standards Committee Patient Education/Engagement working group, Amanda Caissie1
1Dalhousie University, Saint John, NB
2Canadian Partnership for Quality Radiotherapy, Red Deer, AB
3Nova Scotia Cancer Centre, Halifax, NS
4Wawota, SK
5Port Coquitlam, BC
6University of British Columbia, Kelowna, BC
7Queen's University, Kingston, ON
8University of Toronto, Toronto, ON
68 PROVINCIAL VARIATIONS IN RADIOTHERAPY UTILIZATION AS A MEASURE OF ACCESS: A PAN-CANADIAN STUDY
Jessica Chan\textsuperscript{1}, Erika Brown\textsuperscript{2}, Kristopher Dennis\textsuperscript{1}, Ben Slotman\textsuperscript{3}, Michael Brundage\textsuperscript{4}
\textsuperscript{1}The University of Ottawa, Ottawa, ON
\textsuperscript{2}Canadian Partnership for Quality Radiotherapy, Red Deer, AB
\textsuperscript{3}Amsterdam UMC - Vrije University Medical Center, Amsterdam, NL
\textsuperscript{4}Cancer Centre of Southeastern Ontario, Kingston, ON

69 OUTCOMES OF ORAL CAVITY SQUAMOUS CELL CARCINOMA PATIENTS UNDER THE AGE OF 40 YEARS: A PROPENSITY MATCHED ANALYSIS
Astrid Billfalk-Kelly, Shao Hui Huang, Wei Xu, Lu Lin, Raymond Wu, Andrew Bayley, Scott Brattman, John Cho, Meredith Giuliani, John Kim, Brian O'Sullivan, Jolie Ringash, Aaron Hansen, Jonathan Irish, Eric Monteiro, John de Almeida, David Goldstein, John Waldron, Andrew Hope, Ali Hosni
University of Toronto, Toronto, ON

70 QUANTIFYING TUMOUR DOSE USING INDIVIDUALIZED DOSIMETRY METHODOLOGY IN 177LU DOTATATE THERAPY
Rebecca KS Wong\textsuperscript{1}, Sten Myrehaug\textsuperscript{1}, James Brierley\textsuperscript{1}, David Laidley\textsuperscript{2}, Rosalyn Juergens\textsuperscript{3}, Ivan Yeung\textsuperscript{3}, Stephen Breen\textsuperscript{1}, Andrea Shessel\textsuperscript{1}, Brandon Driscoll\textsuperscript{1}, Troy Farncombe\textsuperscript{3}, Katherine Zukotynski\textsuperscript{3}, Robert Stodilka\textsuperscript{2}, Curtis Caldwell\textsuperscript{3}, Amy ZhuHui Liu\textsuperscript{1}, John Valliant\textsuperscript{3}, Joe McCann\textsuperscript{3}, Ur Metser\textsuperscript{1}, Ravi Mohan\textsuperscript{1}, Jean-Mattieu Beauregard\textsuperscript{4}, David Jaffray\textsuperscript{1}
\textsuperscript{1}University of Toronto, Toronto, ON
\textsuperscript{2}Western University, London, ON
\textsuperscript{3}McMaster University, Hamilton, ON
\textsuperscript{4}University Laval, Quebec City, QC

71 HUMANISM IN GLOBAL ONCOLOGY CURRICULA: AN EMERGING PRIORITY
Meredith Giuliani\textsuperscript{1}, Maria Athina (Tina) Martimianakis\textsuperscript{1}, Michaela Broadhurst\textsuperscript{2}, Janet Papadakos\textsuperscript{2}, Erik Driessen\textsuperscript{3}, Janneke Frambach\textsuperscript{3}
\textsuperscript{1}University of Toronto, Toronto, ON
\textsuperscript{2}Princess Margaret Cancer Centre, Toronto, ON
\textsuperscript{3}Maastricht University, Maastricht, NL

72 MEDICAL STUDENT EXPOSURE TO RADIATION ONCOLOGY THROUGH THE PRE-CLERKSHIP EXPLORATION PROGRAM (PREP): EFFECT ON CAREER INTEREST AND UNDERSTANDING OF RADIATION ONCOLOGY
Sebastian Haupt, Todd Dow, Mike Smyth, J. Thomas Toguri, Alysha Roberts, K.L. Raju, David Bowes
Dalhousie University, Halifax, NS

73 AN INNOVATIVE LEARNING TOOL FOR RADIOTHERAPY TREATMENT PLAN EVALUATION: IMPLEMENTATION AND EVALUATION
Jenna Adleman, Jeff Winter, Andrea McNiven, Jennifer Croke
University of Toronto, Toronto, ON
A NEW PREDICTIVE MODEL OF FUTURE NEED FOR EXTERNAL BEAM RADIATION THERAPY REFLECTING THE LOCAL ENVIRONMENT TO INFORM CANCER CARE SERVICE PLANNING
Helmut Hollenhorst¹, Yizhou Zhao¹, Devbani Raha², Ron Dewar²
¹Dalhousie University, Halifax, NS
²Nova Scotia Cancer Care Program, Halifax, NS

12:00-2:00 Lunch/Industry Symposium/Committee Meetings

2:00-3:00 CARO Gold Medal and Gordon Richards Lecture
NS ABCD
Introduction: Ross Halperin

From Populations to Patients
Scott Tyldesley

Objectives: At the end of this session, learners will be able to:
• gain an understanding of the use of outcomes research in cancer care;
• gain an understanding of operations research in cancer care.

3:00-3:30 Refreshment Break
NS Foyer

3:30-5:00 AGM
NS ABCD

5:15-6:15 CROF Fun Run/Walk
Waterfront

7:00-10:00 Dinner and Awards Ceremony
Westin Nova Scotian Hotel
1181 Hollis St.
902-421-1000

Saturday October 5, 2019

7:00-8:00 Breakfast and Registration
NS Foyer

7:00-8:00 Breakfast Symposium
Jean Roy Lecture
NS AB
Facilitator:

SBRT Should Replace Brachytherapy as the Main Treatment Option for Intermediate Risk Prostate Cancer
Andrew Loblaw

Thirteen Reasons Why....SBRT is Not Ready to Replace Prostate Brachytherapy
Eric Vigneault

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

- review the logistics, tolerability, oncologic outcomes for brachytherapy (monotherapy and boost);
- review the logistics, tolerability, oncologic outcomes for stereotactic body radiotherapy (SBRT);
- compare patient selection factors between SBRT and brachytherapy;
- compare salvage treatment options between SBRT and brachytherapy;
- compare the cost savings between SBRT and brachytherapy.

ASRT Lecture
NS CD
Facilitator:

Technical Aspects of Proton Therapy
Justin B. Pigg

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

9:00-10:00 CBG Oral Session
NS AB
Facilitator:

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

75 PERMANENT BREAST SEED IMPLANT FOR PARTIAL BREAST RADIOTHERAPY FOLLOWING PARTIAL MASTECTOMY FOR FAVORABLE BREAST CANCER: RESULTS FOR 67 PATIENTS
Juanita Crook¹, Michelle Hilts¹, Deidre Batchelar¹, Marie-Pierre Milette¹, Martin Korzeniowski², Laurie Pilote³, Jean-Philippe Pignol⁴
¹University of British Columbia, Kelowna, BC
²Queen’s University, Kingston, ON
³University of Laval, Quebec City, QC
⁴Dalhousie University, Halifax, NS
76
SURVIVAL OUTCOMES AND TOXICITY OF BRACHYTHERAPY VERSUS EXTERNAL BEAM BOOST IN THE TREATMENT OF LOCALIZED PROSTATE CANCER: A SYSTEMATIC REVIEW AND META-ANALYSIS
Jenna Adleman¹, Noelia Salgado¹, Rouhi Fazelzad², Jacques Raphael³, Joelle Helou¹
¹University of Toronto, Toronto, ON
²Princess Margaret Cancer Centre, Toronto, ON
³Western University, London, ON

77
COMPARISON OF HRCTV AND ORGANS AT RISK CONTOURS BETWEEN TRUS AND MR IMAGES IN IB CERVICAL CANCERS: A PROOF OF CONCEPT STUDY
Lucas C Mendez¹, Ananth Ravi², Kevin Martell², Hamid Raziee², Yasir Alayed², Toni Barnes², Amandeep Taggar², Shun Wong², Eric Leung²
¹Western University, London, ON
²University of Toronto, Toronto, ON

78
ACUTE AND LATE GENITOURINARY TOXICITY AMONG PATIENTS RECEIVING VAGINAL HIGH DOSE RATE INTERSTITIAL BRACHYTHERAPY
Adrian Cozma, Kevin Martell, Ananth Ravi, Elizabeth Barnes, Moti Paudel, Eric Leung, Amandeep Taggar
University of Toronto, Toronto, ON

79
DEGREE OF LVSI IS NOT A RISK FACTOR FOR RECURRENCE IN ENDOMETRIAL CANCER PATIENTS TREATED WITH VAGINAL BRACHYTHERAPY ALONE
Elizabeth Barnes, Kevin Martell, Amandeep Taggar, Eric Leung
University of Toronto, Toronto, ON

80
TOXICITY AND QUALITY OF LIFE RESULTS FROM A RANDOMIZED PHASE II TRIAL OF HDR MONOTHERAPY FOR LOW AND INTERMEDIATE-RISK PROSTATE CANCER
Odette Cancer Centre, Toronto, ON

Radiation Therapy Oral Session 2
NS CD
Facilitator:

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

81
DOSE RECONSTRUCTION OF CERVICAL CANCER ADAPTIVE RADIOTHERAPY DELIVERED WITH HYBRID CBCT-MRI GUIDANCE
Michael Velec¹, Tony Tadic¹, Jason Xie², Joanne Moseley², Tirth Patel², Michael Milosevic¹, Anthony Fyles¹, Kathy Han¹, Jennifer Croke¹
¹University of Toronto, Toronto, ON
²Princess Margaret Cancer Centre, Toronto, ON
PAW PATROL TO THE RESCUE! MINIMIZING ANAESTHESIA USE IN PAEDIATRIC RADIATION THERAPY
Tatiana Ritchie, Susan Awrey, David C Hodgson, Normand J Laperriere, Derek S Tsang
University of Toronto, Toronto, ON

PALLIATIVE CARE OUTREACH: IMPROVING PALLIATIVE RADIATION THERAPY UTILIZATION IN THE COMMUNITY
James Loudon, Natalie Rozanec, Ashley Clement, Rachel Woo, Anne Grant, Judy Murray, Woodrow Wells
Southlake Regional Health Centre, Newmarket, ON

A NEW APPROACH FOR WEEKLY REVIEW ASSESSMENTS
Lisa Bourne, Carol-Anne Davis, Ellen Crawley, Raymond Wright, Dorianne Rheaueme
Dalhousie University, Halifax, NS

FACULTY DEVELOPMENT NEEDS AND WANTS IN RADIATION MEDICINE
Nicole Harnett¹, Emily Milne², Sarah Tosoni², Rebecca Wong¹
¹University of Toronto, Toronto, ON
²Princess Margaret Cancer Centre, Toronto, ON

A COLLABORATIVE APPROACH TO CARE: MULTIDISCIPLINARY HEAD AND NECK CANCER CLINIC PILOT REVIEW
Natasha McMaster¹, Nathan Lamond¹, Lorianne MacLean¹, Terra Thibault¹, Rachel Sullivan¹, Jill Flynn¹, Drew Bethune¹, Lara Best²
¹Nova Scotia Cancer Care Program, Halifax, NS
²Dalhousie University, Halifax, NS

10:00-10:30 Refreshment Break
10:30-12:00 CROF Public Engagement
Halifax Central Library, Paul O'Regan Hall
10:30-12:00 Workshop 1
International Collaborative Efforts to Increase Quality of Radiotherapy Care Through Capture and Use of Standardized Data
John Kildea

Objectives:
- Understand how CPQR initiatives are contributing to our ability to collect Big Data: a) Canadian Big Radiation Treatment Data Initiative (CBRTDI) supporting use of common nomenclature (ex TG263) as an initial step.
- Patient Reported Outcomes (PRO) supporting use of radiation treatment, disease site specific PRO measures such as the CPQR-endorsed MDASI-HN.
- Appreciate how harnessing Big Data can help facilitate regional, national and international initiatives using patient outcome data to improve patient care and radiation quality.
- Discuss barriers and facilitators of standardized treatment planning and PRO use in RT. Understand how local centres can get started.
Workshop 2
Grassroots Initiative for Conducting Radiotherapeutic RCTs in Canada
David Palma, Tamim Niazi, Houda Bahig, Cynthia Menard

Objectives:
- Understand the importance and unmet need for RCTs in radiotherapy.
- Compare the landscape of grassroots initiatives to address this unmet need.
- Recognize the challenges and opportunities associated with each initiative.
- Discuss competing and complementary strategies with cooperative groups activities (CCTG, NRG, etc).

Workshop 3
Wellness in Radiation Oncology: Overcoming the Paradox
Jennifer Croke

Objectives:
- To recognize the risk factors and signs of burnout
- To discuss initiatives that can be incorporated into a department to support and enhance wellness
- To develop strategies to find or become an effective mentor

12:00-1:00 Reviewer’s Choice
NS CD
Facilitator:

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

87
HIGH DOSE-RATE BRACHYTHERAPY AS MONOTHERAPY FOR PROSTATE CANCER: ONE FRACTION MAY NOT BE ENOUGH
Gerard Morton¹, Merrylee McGuffin¹, Hans Chung¹, Eric Tseng¹, Lucas Mendez², Yaser Hasan¹, Ananth Ravi¹, Liying Zhang¹, Andrew Loblaw¹
¹University of Toronto, Toronto, ON
²Western University, London, ON

88
RADIOTHERAPY VERSUS TRANS-ORAL ROBOTIC SURGERY FOR OROPHARYNGEAL SQUAMOUS CELL CARCINOMA: RESULTS OF A RANDOMIZED TRIAL
David Palma¹, Julie Theurer¹, Eitan Prisman², Nancy Read¹, Eric Berthelet², Eric Tran², Kevin Fung¹, John de Almeida³, Andrew Hope³, David Goldstein³, Michael Hier⁴, Khalil Sultanem⁴, Keith Richardson⁴, Alex Mlynarek⁴, Suren Krishnan⁵, Hien Le⁵, John Yoo¹, Danielle MacNeil¹, Eric Winquist¹, Alex Hammond¹, Varagur Venkatesan¹, Sara Kuruvilla¹, Andrew Warner¹, Sylvia Mitchell¹, Jeff Chen¹, Martin Corsten⁶, Stephanie Johnson-Obaseki⁶, Libni Eapen⁶, Michael Odell⁶, Christina Parker⁶, Bret Wehrli¹, Keith Kwan¹, Anthony Nichols¹
¹Western University, London, ON
²University of British Columbia, Vancouver, BC
³University of Toronto, Toronto, ON
⁴McGill University, Montreal, QC
⁵University of Adelaide, Adelaide, AU
⁶Ottawa University, Ottawa, ON
A BIOCHEMICAL DEFINITION OF CURE FOLLOWING BRACHYTHERAPY OF PROSTATE CANCER
Juanita Crook1, Steven Frank2, Chad Tang2, Howard Thames2, Pierre Blanchard3, Jeremiah Sanders2, Jay Ciezki4, Mira Keyes5, Gregory Merrick6, Hamid Razlee7, Charles Catton7
1University of British Columbia, Kelowna, BC
2University of Texas, Houston, TX
3Institut Gustave Roussy, Villejuif, FR
4Cleveland Clinic, Cleveland, OH
5University of British Columbia, Vancouver, BC
6Schiffler Cancer Center, Wheeling, WV
7University of Toronto, Toronto, ON

ACURA ULTRA-HYPO (UHF) COMPARED TO MODERATE-HYPO (MHF) FRACTIONATED PROSTATE IGRT WITH HDR BRACHYTHERAPY BOOST: LONG TERM TOXICITY, ACCEPTABILITY AND EFFICIENCY OF DELIVERY
André-Guy Martin1, Damien Carignan2, William Foster1, Eric Vigneault1, Marie-Claude Lavallée1, Bernard Lachance1, Éric Poulin1, Frédéric Lacroix1, Sylviane Aubin1, Philippe Després1, Luc Beaulieu1
1CHU de Québec Université Laval, Québec, QC
2Université Laval, Québec, QC

QUALITY OF LIFE OUTCOMES AFTER STEREOTACTIC ABLATIVE RADIOTHERAPY (SABR) VERSUS STANDARD OF CARE PALLIATIVE TREATMENTS: A SECONDARY ANALYSIS OF THE SABR-COMET RANDOMIZED TRIAL
Robert Olson1, Suresh Senan2, Stephen Harrow3, Stewart Gaede4, Alexander Louie5, Niels Haasbeek2, Liam Mulroy6, Michael Lock4, George Rodrigues4, Brian Yaremko4, Devin Schellenberg1, Belal Ahmad6, Gwendolyn Griffioen2, Sashendra Senthi7, Anand Swaminath4, Neil Kopek8, Mitchell Liu1, Karen Moore3, Suzanne Currie3, Glenn Bauman4, Andrew Warner4, David Palma4
1University of British Columbia, Vancouver, BC
2VU University Medical Center, Amsterdam, NL
3Beatson West of Scotland, Glasgow, UK
4London Health Sciences Centre, London, ON
5University of Toronto, Toronto, ON
6Nova Scotia Cancer Centre, Halifax, NS
7Alfred Hospital, Melbourne, AU
8McGill University, Montreal, QC
IS SABR COST-EFFECTIVE IN OLIGOMETASTATIC CANCER? AN ECONOMIC ANALYSIS OF SABR-COMET
Melody Qu¹, Yujie Chen², Gregory Zaric², Suresh Senan³, Robert Olson⁴, Stephen Harrow⁵, Ava John-Baptiste², Stewart Gaede¹, Liam Mulroy⁶, Devin Schellenberg⁷, Sashendra Senthi⁸, Anand Swaminath⁹, Neil Kopek¹⁰, Mitchell Liu¹¹, Andrew Warner¹, George Rodrigues¹, David Palma¹, Alexander Louie¹²,
¹London Health Sciences Centre, London, ON
²Western University, London, ON
³VU University Medical Center, Amsterdam, NL
⁴British Columbia Cancer Agency, Prince George, BC
⁵Beatson West of Scotland Cancer Centre, Glasgow, UK
⁶Nova Scotia Cancer Centre, Halifax, NS
⁷British Columbia Cancer Agency, Surrey, BC
⁸Alfred Hospital, Melbourne, AU
⁹Juravinski Cancer Centre, Hamilton, ON
¹⁰McGill University Health Centre, Montreal, QC
¹¹British Columbia Cancer Agency, Vancouver, BC
¹²Sunnybrook Health Science Centre, Toronto, ON

1:00-1:15 Closing Remarks
NS CD
Poster Abstracts

94
CAREGIVER BURDEN FOR INFORMAL CARERS OF PATIENTS UNDERGOING RADIOTHERAPY FOR MALIGNANCY: A SYSTEMATIC REVIEW
Adam Mutsaers, Gabriel Boldt, Andrew Pritchard, Joanna Laba
Western University, London, ON

95
DOSIMETRIC COMPARISON OF HDR BRACHYTHERAPY AND VMAT FOR ACCELERATED PARTIAL BREAST IRRADIATION (APBI)
Andrée-Anne Bernard, Chrystian Quintero Mateus, Toni Vu, Robert Doucet, Israël Fortin
Université de Montréal, Montreal, QC

96
DOES FREE NICOTINE REPLACEMENT THERAPY LEAD TO IMPROVED SMOKING CESSATION RATES IN CANCER PATIENTS? RESULTS OF A PILOT STUDY
Andrew Arifin¹, Laura McCracken¹, Stacie Nesbitt¹, Andrew Warner¹, Robert Dinniwell¹, David Palma¹, Alexander Louie²
¹Western University, London, ON
²University of Toronto, Toronto, ON

97
LUNG STEREOTACTIC ABLATIVE RADIOTHERAPY FOLLOWING PNEUMONECTOMY: A SYSTEMATIC REVIEW OF CLINICAL AND TOXICITY OUTCOMES
Andrew Arifin¹, Faiez Al-Shafa², R. Gabriel Boldt¹, Andrew Warner¹, George Rodrigues¹, David Palma¹, Alexander Louie²
¹Western University, London, ON
²University of Toronto, Toronto, ON

98
A REVIEW OF CURRENT STEREOTACTIC ABLATIVE RADIOTHERAPY CLINICAL TRIALS FOR OLIGOMETASTATIC CANCERS
Andrew Arifin¹, Faiez Al-Shafa², George B Rodrigues¹, David A Palma¹, Alexander V Louie²
¹Western University, London, ON
²University of Toronto, Toronto, ON

99
SERUM CYTOKINE PROFILING AS A POTENTIAL BIOMARKER IN INTERMEDIATE RISK PROSTATE CANCER: AN EXPLORATORY STUDY
Aruz Mesci, Stanley Liu, Hans Chung
University of Toronto, Toronto, ON

100
REAL WORLD UTILIZATION OF INTERMITTENT ANDROGEN DEPRIVATION THERAPY (IADT) FOR CASTRATION SENSITIVE METASTATIC PROSTATE CANCER IN MANITOBA
Bryan Janzen¹, Makoy Penner², Aldrich Ong¹, Rashmi Koul¹, Bashir Bashir¹, William Hunter¹, Darrel Drachenberg¹, Jeff Saranchuk¹, Jasmin Nayak¹, Oliver Bucher¹, Julian Kim¹
¹University of Manitoba, Winnipeg, MB
²Canadian Mennonite University, Winnipeg, MB

101
RE-IRRADIATION FOR CHILDREN WITH RECURRENT SUPRATENTORIAL HIGH-GRADE GLIOMA
Carol Oliveira¹, Normand J. Laperriere², Eric Bouffet², Cynthia Hawkins², Vijay Ramaswamy², Ryan Yee², Uri Tabori², Ute Bartels², Annie Huang², Barbara-Ann Millar², Bruce Crooks³, Lynette Bowes⁴, Shayna Zelcer⁵, Derek S. Tsang²
1 Queen's University, Kingston, ON
2 University of Toronto, Toronto, ON
3 Dalhousie University, Halifax, NS
4 Memorial University of Newfoundland, St. John's, NL
5 Western University, London, ON

102
THE ONCOLOGY RESEARCH INTERNSHIP (ORION): A MUTUALLY BENEFICIAL PILOT PROGRAM FOR MEDICAL STUDENTS FACILITATED BY RESIDENT RESEARCH SUPERVISORS
Christopher Goodman1, David Palma1, Joanna Laba1, Gabe Boldt1, Andrew Arifin1, Vikram Velker1, Alexander Louie2, Glenn Bauman1, Timothy Nguyen2
1 Western University, London, ON
2 University of Toronto, Toronto, ON

103
PATTERNS OF RECURRENCE AND PREDICTORS OF SURVIVAL IN BREAST CANCER PATIENTS TREATED WITH NEOADJUVANT CHEMOTHERAPY, SURGERY AND RADIATION
Dana Keilty, Shirin Namini, Monali Swain, Manjula Maganti, Tulin Cil, David McCready, David Cescon, Eitan Amir, Rachel Fleming, Anna Marie Mulligan, Wilfred Levin, Fei-Fei Liu, Jennifer Croke, Anthony Fyles, Anne Koch, Kathy Han
University of Toronto, Toronto, ON

104
RETROSECTIVE ANALYSIS OF OUTCOMES OF CYBERKNIFE RADIATION THERAPY TO LIVER
Elaine Liu, Graham Cook
University of Ottawa, Ottawa, ON

105
CYBERKNIFE STEREOTACTIC RADIOSURGERY FOR TREATMENT OF BENIGN INTRACRANIAL MENINGIOMA: LONG-TERM SAFETY AND EFFICACY
Eric Nguyen, Gregory Pond, Jeffrey Greenspoon, Anthony Whitton, Crystal Hann
McMaster University, Hamilton, ON

106
"RESILIENCE BY DESIGN" - DESCRIPTION OF A PILOT RADIATION ONCOLOGY WELLNESS PROGRAM
Hannah Dahn, Carolyn Thomson, David Bowes, Gabriela Ilie, Rob Rutledge
Dalhousie University, Halifax, NS

107
AN ESCAPE ROOM AS A NOVEL MULTIPLE MINI INTERVIEW (MMI) STATION FOR RADIATION ONCOLOGY RESIDENT SELECTION
Hannah Dahn, Trisha Daigle-Maloney, Karen Watts, Lara Best, David Bowes
Dalhousie University, Halifax, NS

108
INDIVIDUALIZED DOSE-ESCALATION OF HDR PROSTATE BRACHYTHERAPY IMPLANT TO DECREASE REQUIRED EXTERNAL BEAM RADIATION DOSE: A RETROSPECTIVE FEASIBILITY STUDY
Hannah Dahn, Patricia Oliver, Stefan Allen, Amanda Cherpak, Alasdair Syme, Nikhilesh Patil, David Bowes
Dalhousie University, Halifax, NS

109
ATTITUDES TOWARDS RESEARCH DURING RADIATION ONCOLOGY RESIDENCY TRAINING: A SURVEY OF CANADIAN RADIATION ONCOLOGY RESIDENTS AND PROGRAM DIRECTORS
Hannah Dahn, Lara Best, David Bowes
WELL-MED: A MULTIDISCIPLINARY APPROACH TO SUPPORTING RADIATION ONCOLOGY WELLNESS
Indu Voruganti, Ida Ackerman, Barbara-Ann Millar, Matthew Follwell, Jennifer Croke
University of Toronto, Toronto, ON

ROBUSTNESS OF THE PHOENIX BIOCHEMICAL FAILURE DEFINITION 10 YEARS AFTER COMPLETING DOSE ESCALATED RADIOThERAPY IN A COHORT OF INTERMEDIATE RISK PROSTATE CANCER PATIENTS
Ghufran Aljawi, Ionut Busca, Robert MacRae, Libni Eapon
University of Ottawa, Ottawa, ON

WHEN BIOCHEMICAL FAILURE DOES NOT MEAN CANCER RECURRENCE IN MEN TREATED BY EXTERNAL BEAM RADIOTHERAPY AND ADJUVANT HORMONES FOR INTERMEDIATE RISK PROSTATE CANCER
Ionut Busca, Ghufran Aljawi, Robert MacRae, Libni Eapon
University of Ottawa, Ottawa, ON

OUTCOME COMPARISON BETWEEN EARLY STAGE ADENOCARCINOMA AND SQUAMOUS CELL CARCINOMA LUNG CANCERS TREATED WITH STEREOTACTIC BODY RADIATION THERAPY
Jack Zheng, Ritika Hinduja, Jason Pantarotto, Graham Cook, Vimoj Nair, Robert MacRae
University of Ottawa, Ottawa, ON

STEREOTACTIC BODY RADIOTHERAPY THERAPY FOR RECURRENT HEAD AND NECK CANCERS: DOSIMETRIC STUDY BETWEEN 3 DIFFERENT RADIATION MODALITIES
Jack Zheng, Julie Gratton, Greg Fox, Benoit Ladouceur, Jamie Bahm, Eric Vandervoort, Robert Zohr, Marc Gaudet
University of Ottawa, Ottawa, ON

OPTIMAL HYPOFRACTIONATED RECTAL DOSE-VOLUME CONSTRAINT FROM THE PROSTATE CANCER PATIENTS OF THE PCS V TRIAL
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10Hôpital de la Cité-de-la-Sante, Laval, QC
11Hôpital de Gatineau, Gatineau, QC
12CSSS de Chicoutimi, Chicoutimi, QC
13Saint John Regional Hospital, Saint John, NB
116 RADIOTHERAPY AND CARDIOVASCULAR IMPLANTABLE ELECTRONIC DEVICES - AN EVIDENCE-BASED GUIDELINE AT MCGILL UNIVERSITY
James Man Git Tsui\textsuperscript{1}, Daniel Garcia\textsuperscript{1}, Michelle Samuel\textsuperscript{1}, Alexandre Riopel\textsuperscript{2}, Benjamin Royal-Preyra\textsuperscript{1}, Victor Matassa\textsuperscript{1}, Martin Louis Bernier\textsuperscript{1}, Joanne Alfieri\textsuperscript{1}
\textsuperscript{1}McGill University Health Centre, Montreal, QC
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117 HOW EFFECTIVE IS ADJUVANT RADIOTHERAPY IN THE MANAGEMENT OF STAGE I HIGH-RISK ENDOMETRIAL CANCER?
Jiheon Song, Tien Le, Marc Gaudet, Choan E, Krystine Lupe, Rajiv Samant
University of Ottawa, Ottawa, ON

118 DOSE-SPARING EFFECT OF DEEP INSPIRATION BREATH HOLD TECHNIQUE ON CORONARY ARTERY AND LEFT VENTRICLE SEGMENTS
Jiheon Song, Jason Belec, Jean-Michel Caudrelier, Patricia Lacasse, Ghada Aldosary, Vimoj Nair
University of Ottawa, Ottawa, ON

119 AGE AS AN INDEPENDENT PREDICTIVE FACTOR FOR SURVIVAL OUTCOMES IN PRIMARY CNS LYMPHOMA: A REVIEW FROM TERTIARY INSTITUTION
Jiheon Song, Rajiv Samant, Xin Yan Fan, Mohammad Jay, Hina Chaudry, David MacDonald, Isabelle Bence-Bruckler, Vimoj Nair
University of Ottawa, Ottawa, ON

120 AN UPDATE ON TREATMENT OF INTERMEDIATE-RISK ENDOMETRIAL CANCER USING MINIMALLY INVASIVE SURGERY AND ADJUVANT RADIOTHERAPY
Jiheon Song, Tien Le, Marc Gaudet, Choan E, Krystine Lupe, Rajiv Samant
University of Ottawa, Ottawa, ON

121 PALLIATIVE CRANIAL IRRADIATION IMPROVES SURVIVAL IN PRIMARY CNS LYMPHOMA PATIENTS INELIGIBLE FOR SYSTEMIC THERAPY
Jiheon Song, Rajiv Samant, Xin Yan Fan, Mohammad Jay, Hina Chaudry, David MacDonald, Isabelle Bence-Bruckler, Vimoj Nair
University of Ottawa, Ottawa, ON

122 A COMPARISON OF RADIATION TECHNIQUES IN PATIENTS TREATED WITH CONCURRENT CHEMORADIATION FOR STAGE III NON-SMALL CELL LUNG CANCER
Jonathan Peng, Elysia Donovan, Peter Ellis, Greg Pond, Anand Swaminath
McMaster University, Hamilton, ON

123 VALIDATION OF DEEP LEARNING-BASED AUTO-SEGMENTATION FOR ORGANS AT RISK AND GROSS TUMOUR VOLUMES IN LUNG STEREOTACTIC BODY RADIOTHERAPY
Jordan Wong\textsuperscript{1}, Vicky Huang\textsuperscript{2}, Tony Teke\textsuperscript{3}, Joshua Giambattista\textsuperscript{4}, Siavash Atrchian\textsuperscript{3}
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\textsuperscript{4}Saskatchewan Cancer Agency, Regina, SK
124 COMPARING DEEP LEARNING-BASED AUTO-SEGMENTATION OF ORGANS AT RISK AND CLINICAL TARGET VOLUMES TO EXPERT INTER-OBSERVER VARIABILITY IN RADIOTHERAPY PLANNING
Jordan Wong1, Allan Fong1, Nevin McVicar2, Sally Smith3, Derek Wells3, Joshua Giambattista4, Lovedeep Gondara1, Carter Kolbeck5, Jonathan Giambattista6, Abraham Alexander3
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125 RECTAL WALL VERSUS WHOLE RECTUM DOSE: WHICH VOLUME BETTER PREDICTS GASTROINTESTINAL TOXICITY FROM PROSTATE EXTERNAL BEAM RADIOTHERAPY?
Julia Khriguian1, James Man Git Tsui1, Michael Jonathan Kucharczyk2, Abdenour Nabid3, Redouane Bettahar4, Linda Suzanne Vincent5, André-Guy Martin6, Marjory Jolicoeur7, Michael Yassa8, Maroie Barkati9, Levon Igibbashian10, Boris Bahoric2, Robert Archambault11, Hugo Villeneuve12, Md Mohiuddin13, Tamim Mohammad Niazi1
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10Hôpital de la Cité-de-la-Santé, Laval, QC
11Hôpital de Gatineau, Gatineau, QC
12CSSS de Chicoutimi, Chicoutimi, QC
13Saint John Regional Hospital, Saint John, NB

126 ENGAGING INTER-PROFESSIONAL COLLABORATION TO IMPROVE RESIDENT TREATMENT PLANNING KNOWLEDGE AND SKILLS
Julianna Sienna, Barbara Strang, Anand Swaminath
McMaster University, Hamilton, ON

127 SMALL CELL CARCINOMA OF THE BLADDER: RETROSPECTIVE LONG TERM OUTCOMES OF CHEMORADIATION
Justin Oh, Peter Black, Bernhard Eigl, Katherine Sunderland, Scott Tyldesley
University of British Columbia, Vancouver, BC

128 3D PRINTER TECHNOLOGY FOR CUSTOM BOLUS AND IMMOBILIZATION DEVICE FABRICATION IN THE MANAGEMENT OF PALMAR OR PLANTAR FIBROMATOSIS WITH RADIOTHERAPY: TECHNICAL AND DOSIMETRY ASPECTS
Justin Owen, David Sasaki, Andrew Cooke, Arbind Dubey, Rashmi Koul
University of Manitoba, Winnipeg, MB

129 FEATURES OF PATIENTS LIVING LESS THAN 3 MONTHS FOLLOWING SPINE STEREOTACTIC BODY RADIOTHERAPY
Kang Liang Zeng, Chia-Lin Tseng, Sten Myrehaug, Hany Soliman, Zain Husain, Arjun Sahgal
130
DOSIMETRIC STUDY OF HIPPOCAMPAL SPARING IN PATIENTS TREATED WITH CYBERKNIFE FOR BRAIN METASTASES
Laura Burgess, Julie Gratton, Janice Doody, Vimoj Nair, Shawn Malone
University of Ottawa, Ottawa, ON

131
PROGNOSTIC INDEX FOR LOCALIZED LIVER RADIATION - HEPATOCELLULAR CARCINOMA (PILLIR-HCC): DEVELOPMENT AND ANALYSIS OF A CLINICAL PROGNOSTIC TOOL TO IMPROVE PATIENT SELECTION FOR LIVER DIRECTED RADIOTHERAPY IN PATIENTS WITH HEPATOCELLULAR CARCINOMA
Laura Callan, Jason Vickress, Eugene Wong
Western University, London, ON

132
PROGNOSTIC INDEX FOR LOCALIZED LIVER RADIATION - METASTATIC (PILLIR-M): DEVELOPMENT AND ANALYSIS OF A CLINICAL PROGNOSTIC TOOL TO IMPROVE PATIENT SELECTION FOR LIVER DIRECTED RADIOTHERAPY FOR LIVER METASTASES
Laura Callan, Jason Vickress, Eugene Wong, Michael Lock
Western University, London, ON

133
DOES "5+5" EQUAL BETTER RADIATION TREATMENT PLANS IN HEAD AND NECK CANCERS?
Mark T Corkum, Sylvia Mitchell, Varagur Venkatesan, Nancy Read, Andrew Warner, David A Palma
London Health Sciences Centre, London, ON

134
PROFESSIONAL CONDUCT IN CLINICAL RADIATION ONCOLOGY RESEARCH
Matthew Chan1, Andrea MacNeill1, Rod Rassekh2, Corey Metcalf1, Mark Goodwin1, Karen Goddard1
1British Columbia Cancer Agency, Vancouver, BC
2British Columbia Children’s Hospital, Vancouver, BC

135
LOW Z TARGET BEAM ENHANCES GOLD/GADOLINIUM NANOPARTICLE MEDIATED CELL KILL IN ZEBRAFISH XENOGRRAFT MODEL
Michael N Ha1, Olivia Piccolo1, Nicole Melong1, John Lincoln1, David Parsons2, Alexandre Detappe3, Olivier Tillement4, Ross I Berbeco5, Jason N Berman1, James Robar1
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2UT Southwestern Medical Centre, Dallas, TX
3David H Koch Institute for Integrative Cancer Institute, MIT, Cambridge, MA
4Universite de Lyon, Villeurbanne, FR
5Harvard Medical School, Boston, MA

136
OUTCOMES OF STEREOTACTIC RADIOSURGERY FOR BRAIN ARTERIOVENOUS MALFORMATIONS: A SINGLE CENTRE EXPERIENCE
Michael Kim, Carol-Anne Davis, Liam Muulroy, Gwynedd Pickett
Dalhousie University, Halifax, NS

137
INTRACRANIAL CONTROL AND RADIONECROSIS IN MELANOMA PATIENTS WITH BRAIN METASTASES TREATED WITH STEREOTACTIC RADIOSURGERY
Michael C. Tjong1, Fabio Y. Moraes2, David Shultz1
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STEREOTACTIC ABLATIVE RADIOTHERAPY FOR MEDIASTINAL AND HILAR LYMPHADENOPATHY: A SYSTEMATIC REVIEW
Michael C Tjong1, Nauman Malik1, Gabriel Boldt2, George Li1, Ian Poon1, Patrick Cheung1, Yee Ung1
1University of Toronto, Toronto, ON
2Western University, London, ON

EXTERNAL VALIDATION OF 7TH AND 8TH EDITIONS OF THE AJCC TNM STAGING CLASSIFICATION SYSTEM FOR ANAL CANAL CANCER: A MULTI-INSTITUTIONAL QUALITY ASSURANCE STUDY
Michael Wang1, Corinne Doll2, Sunita Ghosh1, Alysa Fairchild1, Nawaid Usmani1, Keith Tankel1, Tirath Nijjar1, Diane Severin1, Karen Mulder1, Gloria Roldan Urgoiti2, Peter Mathen3, Kurian Joseph1
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2Tom Baker Cancer Centre, Calgary, AB
3National Institute of Health, Bethesda, MD

RE-DEFINING VENTRICULAR TARGET VOLUME IN GERMINOMA: IS INCLUSION OF TEMPORAL HORNS NECESSARY?
Michael Yan1, Normand Laperriere2, Ute Bartels2, Michael Velec2, Vijay Ramaswamy2, Eric Bouffet2, Derek Tsang2
1Queen's University, Kingston, ON
2University of Toronto, Toronto, ON

LEARNING FROM MISTAKES - EVENT REPORTING AND ORGANIZATIONAL LEARNING IN THE RADIATION ONCOLOGY PROGRAM
Nataliya Moldovan, Rashmi Koul, Cyndy Penner, Paul Perreault
University of Manitoba, Winnipeg, MB

DOES A ROCKY TREATMENT COURSE IN HEAD & NECK CANCER PATIENTS PREDICT ONCOLOGIC OUTCOMES?
Nauman Malik, Manjula Maganti, Maurene McQuestion, Michael Tjong, Dana Keilty, Eric Monteiro, Shao Hui (Sophie) Huang, Raymond Woo-Jun Jang, Andrea Gomes, Joanne Pun, Jolie Ringash
University of Toronto, Toronto, ON

A COMPARISON OF THE TUMOUR RESPONSE IN ESOPHAGEAL CANCER PATIENTS TREATED WITH TRI-MODALITY APPROACH USING EITHER CISPLATIN/5-FU OR CARBOPLATIN/PACLITAXEL AND CONCOMITANT RADIATION THERAPY
Nikitha Moideen, Wilma Hopman, Jim Biagi, David Hurlbut, Conrad Falkson, Wiley Chung, Aamer Mahmud
Queen's University, Kingston, ON

USE OF COMBINED HORMONE THERAPY WITH POST-OPERATIVE RADIATION TREATMENT FOR PROSTATE CANCER: IMPACT OF RANDOMIZED TRIALS ON CLINICAL PRACTICE
Rachel Glicksman1, Jaqueline Heaton2, Aaron R. Hansen2
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2University Health Network, Toronto, ON

LOCALIZED PROSTATE CANCER PATIENTS' PREFERENCES FOR HYPOFRACTIONATED RADIOTHERAPY: A DISCRETE CHOICE EXPERIMENT PILOT STUDY
Samantha Sigurdson1, Mark Harrison2, Harriet Richardson1, Michael Brundage1
146
A COMPARISON OF STEREOTACTIC BODY RADIOTHERAPY MODALITIES: VOLUMETRIC MODULATED ARC THERAPY VERSUS INTENSITY MODULATED RADIATION THERAPY IN TREATMENT OF KIDNEY CANCER
Simone Chaudhary, Anand Swaminath, Himansu Lukka, Tom Chow, Jasmin Vansantvoort
McMaster University, Hamilton, ON

147
ARE FEMALE RADIATION ONCOLOGISTS STILL UNDERREPRESENTED IN THE PUBLISHED LITERATURE? AN ANALYSIS OF AUTHORSHIP TRENDS OVER THE PAST DECADE
Sondos Zayed, Melody Qu, Andrew Warner, Tina (Wanting) Zhang, Joanna Laba, George Rodrigues, David A Palma
Western University, London, ON

148
DOES VERTEBRAL BODY SPARING VMAT CSI CONFER SIGNIFICANT ORGAN-AT-RISK SPARING? A DOSIMETRIC STUDY
Wei Ning (Will) Jiang, Che Husan (David) Wu
University of Calgary, Calgary, AB

149
SUCCESSFUL INCREMENTAL IMPLEMENTATION OF DEEP INSPIRATION BREATH HOLD FOR ADJUVANT RADIATION IN LEFT-SIDED BREAST CANCER
Huaying Zhao, Adele Duimering, David Sinn, Sunita Ghosh, Heather Warkentin, Kent Powell
University of Alberta, Edmonton, AB

150
CLINICAL AND RADIOGRAPHIC TRIGGERS FOR ON-TREATMENT IMAGE-GUIDED ADAPTIVE RADIOTHERAPY REPLANNING: A LITERATURE REVIEW
Yiming Michael Zhu, Alysa Fairchild
University of Alberta, Edmonton, AB

151
FEASIBILITY OF USING NATURAL LANGUAGE PROCESSING TO EXTRACT CANCER PAIN SCORE FROM CLINICAL NOTES
Hossien Naseri
McGill University, Montreal, QC

152
DOSE ESCALATION IN 5-FRACTION PALLIATIVE THORACIC RADIOTHERAPY: A FEASIBILITY AND SAFETY PLANNING STUDY
Melody Qu¹, Donna Murrell¹, Barbara Millman¹, David Palma¹, Alexander Louie²
¹London Health Sciences Centre, London, ON
²Sunnybrook Health Science Centre, Toronto, ON

153
THE IMPACT OF ADVANCED IMAGE REGISTRATION AND 3-D EQD2 DOSE CONVERSION ON PTV AND CTV COVERAGE IN THE RETREATMENT OF NASOPHARYNGEAL CANCER: A CASE STUDY
Eric Berthelet¹, Eric Tran¹, Susan Zhang¹, Sarah Hamilton¹, Jonn Wu¹, Rob Olson², Alanah Bergman¹
¹University of British Columbia, Vancouver, BC
²University of British Columbia, Prince George, BC
154 COMPARATIVE PLAN ANALYSIS FOR A COMPLICATED SUPRAORBITAL SQUAMOUS CELL CARCINOMA USING 3D PRINTED MODULATED ELECTRON BOLUS
Kathryn Moran, James Robar
Dalhousie University, Halifax, NS

155 SUCCESSES AND BARRIERS TO THE INTEGRATION OF THE NATIONAL SYSTEM FOR INCIDENT REPORTING-RADIATION TREATMENT (NSIR-RT) TAXONOMY INTO A PROVINCIAL INCIDENT REPORTING AND LEARNING SYSTEM
Kathryn Moran, Helmut Hollenhorst
Dalhousie University, Halifax, NS

156 VALIDATION AND INTER-RATER RELIABILITY OF TWO METRICS USED AS PREDICTORS OF HEART DOSE IN PATIENTS TREATED WITH ADJUVANT RADIOTHERAPY TO THE LEFT BREAST
1 Western University, London, ON
2 Hospital Dilson de Quadros Godinho, Montes Claros, BR
3 University of Toronto, Toronto, ON

157 MARGIN ASSESSMENT AND DOSIMETRIC IMPACT AS PART OF IMPLEMENTATION OF PROSTATE SBRT
Derek Liu, Evgeny Sadikov, Nelson Leong, Varun Thakur
University of Saskatchewan, Regina, SK

158 IMPACT OF PELVIC INTENSITY-MODULATED RADIOTHERAPY (IMRT) ON LYMPH NODE COVERAGE AND DOSE TO CRITICAL ORGANS, COMPARE TO THREE-DIMENSIONAL CONFORMAL RADIATION THERAPY (3D-CRT), IN LOCALIZED HIGH-RISK PROSTATE CANCER
Naghmeh Isfahanian5, Georgia Douvi1, Julie Arsenault2, Ian Dayes3, Ranjini Tolakanahalli4, Tom Corbett3, Himu Lukka3, Malti Patel3, Tom Chow3, Kevin Diamond3, Nota Klentrou1, Sameer Parpia3, Theodoros Tsakiridis3
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3 Juravinski Cancer Centre, McMaster University, Hamilton, ON
4 Walker Family Cancer Centre, St. Catharines, ON
5 Princess Margaret Cancer Centre, University of Toronto, ON

159 PERIPHERAL DOSE MEASUREMENTS IN THE PRESENCE OF CARDIOVASCULAR IMPLANTABLE ELECTRONIC DEVICES IN MEGA-VOLTAGE RADIOTHERAPY
Mitchell Crocker, Heping Xu
Dalhousie University, Halifax, NS

160 CAPACITIVE MONITORING TECHNIQUES FOR INTRA-FRACTION PATIENT MOTION DETECTION
Parisa Sadeghi, Kathryn Moran, Oleksii Semeniuk, James Robar
Dalhousie University, Halifax, NS
ACURA 2017
PSMA-PET GUIDED INTENSIFICATION OF RADIOTHERAPY FOR PROSTATE CANCER: PRELIMINARY DETECTION RATE AND IMPACT ON RADIOTHERAPEUTIC MANAGEMENT
Cynthia Menard¹, Guila Delouya¹, Philip Wong¹, Marie-Claude Beauchemin¹, Maroie Barkati¹, Daniel Taussky¹, Jean-Paul Bahary¹, Tibor Schuster², David Roberge¹, Jean DaSilva³, Daniel Juneau¹, Fred Saad¹
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CLINICAL IMPLEMENTATION OF AN INTEGRATED MR-GUIDED LINEAR ACCELERATOR FOR OFFLINE ADAPTIVE RADIOTHERAPY FOR CERVICAL CANCER
Tony Tadic¹, Jennifer Croke¹, Jason Xie², Teodor Stanescu¹, Daniel Letourneau¹, Jean-Pierre Bissonnette¹, Stephen Breen¹, Anna Simeonov¹, Colleen Dickie¹, Christine Hill¹, Winnie Li¹, Catherine Ellis¹, Jeff Winter², Michael Veléc¹, Anthony Fyles¹, Kathy Han¹, David Jaffray¹, Michael Milosevic¹
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APPLICATION OF NOVEL RADIOTHERAPY AND IMAGING FEATURES FOR HEAD AND NECK PATIENT LOCOREGIONAL FAILURE PREDICTIONS
Mattea Welch¹, Chris McIntosh², Leonard Wee³, Andrea McNiven², Shao Hui Huang², Bei-Bei Zhang², Alberto Traverso³, Brian O'Sullivan², Frank Hoebers³, Andre Dekker³, David Jaffray²
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ARE POST ONCOPLASTY SURGICAL CLIPS A RELIABLE RADIOGRAPHIC SURROGATE OF TUMOUR BED LOCATIONS? A PHANTOM BASED STUDY
Ghada Aldosary¹, Tabitha Tse², Angel Arnaout², Jean-Michel Caudrelier², Ron Romain², Bernie Lavigne², Jiheon Song², Eric Vandervoort², Jason Belec²
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²The Ottawa Hospital, Ottawa, ON

AUTOMATED VMAT/IMRT BREAST PLANNING: A WORKABLE MODEL GEARED FOR IMPLEMENTATION IN THE MODERN HIGH VOLUME RADIATION CENTRE
Dylan Narinesingh, Winkle Kwan, Fred Cao
University of British Columbia, Surrey, BC

BIO-MARKERS IN BREAST CANCER: QUANTIFYING DISCORDANCE WITH BEST PRACTICE WHEN RECEPTOR STATUS IS AN EXTRAVAGANCE
Melinda Mushonga¹, Ntokozi Ndlovu¹, Sandra Ndakwua¹, Anna Mary Nyakabau¹, Zahra Kassam², Rebecca Wong²
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THE NEW DIABETES DRUG CANAGLIFLOZIN ENHANCES THE RESPONSE OF PROSTATE CANCER TO RADIOTHERAPY
Bassem Mekhaeil¹, Panagiotis Zacharidis¹, Evelyn Tsakiridis¹, Olga-Demetra Biziotis¹, Lindsay Broadfield¹, Gabe Menjolian¹, Tammy Mathurin¹, Thomas Farrell¹, Paola Muti¹, Stanley Liu², Gregory Steinberg¹, Theodoros Tsakiridis¹
168 WITHDRAWN

169
POLYMORPHISM OF FORMYL PEPTIDE RECEPTOR 1 (FPR1) REDUCES THE THERAPEUTIC EFFICIENCY AFTER NEOADJUVANT CHEMORADIOThERAPY (NEOCRt) TREATMENT IN LOCALLY ADVANCED RECTAL CANCER (LARC)
Shu-Fen Chiang, Kevin Chih-Yang Huang, Tao-Wei Ke, William Tzu-Liang Chen, Tsung-Wei Chen, K. S. Clifford Chao
China Medical University Hospital, China Medical University, Taichung, CN

170
UTILITY OF MRI BASED ADC IMAGE SETS IN DELINEATING GTVRES VOLUMES IN CERVICAL BRACHYThERAPY: A MULTICENTRE STUDY
Kevin Martell¹, Kathy Han¹, Lucas Mendez², Elizabeth Barnes¹, Amandeep Taggar¹, Ananth Ravi¹, Eric Leung¹
¹University of Toronto, Toronto, ON
²Western University, London, ON

171
HIGH-DOSE-RATE BRACHYThERAPY AS MONOTHERAPY FOR THE TREATMENT OF INTERMEDIATE RISK PROSTATE CANCER: TOXICITY RESULTS
Yousef Katib, Cyrus Sani, Richard Sioufi, Sergio Faria, Armen Aprikian, Fabio Cury, Luis Souhami, Marie Duclos
McGill University, Montreal, QC

172
3D PRINTED, INDIVIDUALLY CUSTOMIZED HIGH-DOSE-RATE BRACHYThERAPY APPLICATOR FOR TREATMENT OF CHRONIC DIGITAL PSORIASIS
Amandeep Taggar, Kevin Martell, Elizabeth Barnes, Bilal Ahmed, Moti Paudel, Ananth Ravi
University of Toronto, Toronto, ON

173
IMAGE-GUIDED BRACHYThERAPY FOR PRIMARY VAGINAL CANCER: CLINICAL AND TOXICITY OUTCOMES
William Foster, Éric Vigneault, Laurie Pilote, Marie-Claude Lavallée, Sylviane Aubin, Damien Carignan, Laurie Pilote
Université Laval, Québec, QC

174
INTRAOPERATIVE RADIOThERAPY OUTCOMES IN EARLY BREAST CANCER
Maryam Elmi, Alex Vitkin, Alexander Tigert, Jaime Escallon, Tulin Cil, Brandon Zagorski, Wey Leong, Marie Vranic, Wilf Levin, David McCready, Anthony Fyles
University of Toronto, Toronto, ON

175
ACUTE URINARY SYMPTOM COMPARISON BETWEEN PROSTATE BRACHYThERAPY TREATMENT APPROACHES
Elizabeth Watt, Kundan Thind, Raman Dhoot, Harvey Quon, Siraj Husain
Tom Baker Cancer Centre, Calgary AB
BRACHYTHERAPY FOR PROSTATE CANCER A VALUED TECHNIQUE BY RADIATION ONCOLOGIST BUT WITH VERY LITTLE AVAILABILITY IN CHILE
Tomas Merino1, Paula Reyes1, Piero Bettoli2, Sergio Becerra3, Nicolas Isa4, Roberto Rosso2
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DOES POINT A PREDICT LATE TOXICITY IN CERVICAL CANCER PATIENTS TREATED WITH CT GUIDED INTERSTITIAL BRACHYTHERAPY?
Boris Bahoric, Mahtab Malekian, Magali Lecavalier-Barsoum
McGill University, Montreal, QC

A PILOT STUDY TO COMPARE TEACHING PATIENTS IN A GROUP SETTING VERSUS ONE-ON-ONE, FOR PATIENTS WHO WILL BE UNDERGOING PROSTATE BRACHYTHERAPY
Tracey Rose1, Michelle Brandel1, Eleanor Garcia1, Bart Robertson1, Laura Vernon1, Janet Yanchuk1, Juanita Crook2
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THE EFFECT OF BOLUS ON LOCAL CONTROL AFTER POST-MASTECTOMY RADIOTHERAPY
Srinivas Raman1, Pauline Truong2, Lovedeep Gondara1, Caroline Speers1, Elisa Chan1, Eric Tran1, Caroline Lohrisch1
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PATTERNS OF PROSTATE CANCER RECURRENCE AFTER BRACHYTHERAPY IMAGED WITH PSMA-TARGETING 18F-DCFPPYL PET/CT
Srinivas Raman, Keyes Mira, Andra Krauze, Don Wilson, François Bénard
University of British Columbia, Vancouver, BC

IS ADJUVANT RADIOTHERAPY ALONE (WITHOUT HORMONE THERAPY) A TREATMENT OPTION FOR WOMEN 70 YEARS OR OLDER WITH EARLY STAGE BREAST CANCER?
Kurian Joseph1, Michael Wang1, Sarah Zebak2, Cara Au3, Kayla Mah4, Veronica Alba3, Sunita Ghosh1, Hongwei Liu2, Erika Wiebe1, Susan Chafe1, Carole Chambers6, Sasha Lupichuk7, Karen King1
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3University of Alberta, Edmonton, AB
4University of Toronto, Toronto, ON
5Central Alberta Cancer Centre, Red Deer, AB
6Alberta Health Services, Edmonton, AB
7Tom Baker Cancer Centre, Calgary, AB
A BREAST SKIN ASSESSMENT PILOT (POSI B-SKIP) COMPARING PATIENT REPORTED OUTCOMES AND THERAPIST ASSESSMENT OF MOIST DESQUAMATION IN BREAST RADIOTHERAPY
Sheri Grahame¹, Erika Facchin¹, David Morris², Robert Olson³, Theodora Koulis⁴, Cheryl Duzenli⁵
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⁴British Columbia Cancer Agency, Kelowna, BC
⁵University of British Columbia, Vancouver, BC

REVIEW OF THE MANAGEMENT OF PATIENTS WITH ADVANCED ESOPHAGEAL CANCER AT RADIOTHERAPY CENTRE, PARIRENYATWA GROUP OF HOSPITALS, HARARE, ZIMBABWE
Joel Okumu¹, Nomsa Tsikai¹, Kadzatsa Webster¹, Ndarukwa Sandra¹, Ntokozo Ndlovu¹, Rebecca Wong²
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²University of Toronto, Toronto, ON

ANALYSIS OF RADIATION DOSIMETRY PREDICTIVE FOR TOXICITY IN RECTAL CANCER PATIENTS TREATED WITH LONG COURSE CHEMORADIATION
Aswin George Abraham¹, JoAnn Thai¹, Sunita Ghosh¹, Brad Warkentin¹, Jihyun Yun¹, Diane Severin¹, Keith Tankel¹, Kurian Joseph¹, Tirath Nijjar¹, Alysa Fairchild¹, Winson Cheung², Yuan Xu²
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LONG TERM SURVIVAL OF PATIENTS WITH GASTRIC CANCER TREATED WITH ADJUVANT RADIOTHERAPY: PROPOSAL OF A PROGNOSTIC INDEX WITH IMPLICATION FOR TREATMENT MODIFICATION
Junliang Liu, Shahida Ahmed
University of Manitoba, Winnipeg, MB

INVESTIGATION OF STRATEGIES TO IMPROVE PATIENT SUCCESS IN PREPARATION FOR CT SIMULATION FOR PROSTATE RADIOTHERAPY
Shannah Murland, Winston Poon, Pamela Paterson, Sonnia Valiquette-Fleury, Michael Piva
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THE RISK OF INFECTION AFTER PROSTATIC FIDUCIAL GOLD MARKERS INSERTION FOR IMAGE GUIDED RADIATION THERAPY
Ibtihel Ben Aicha, Claude Pelchat, William Foster, André-Guy Martin
CHU de Québec-Université Laval, Québec, QC

DNA REPAIR GENES POLYMORPHISMS, TUMOUR CONTROL AND TREATMENT TOXICITY IN PROSTATE CANCER PATIENTS TREATED WITH PERMANENT IMPLANT PROSTATE BRACHYTHERAPY
Éric Vigneault¹, Damien Carignan¹, Trystan Lessard¹, Lyne Villeneuve², Sylvie Desjardins¹, Sindy Magnan², Philippe Després¹, André-Guy Martin², William Foster², Chantal Guillemette¹, Éric Lévesque²
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²CHU de Québec-UL Research Center, Québec, QC
189
BONE SCANS IN THE MANAGEMENT OF METASTATIC CASTRATE-RESISTANT PROSTATE CANCER: SURVEY OF PATTERNS OF PRACTICE IN CANADIAN RADIATION ONCOLOGISTS, MEDICAL ONCOLOGISTS AND UROLOGISTS
Mahbuba Meem1, Katherine Zukotynski2, Srinivas Raman1, Urban Emmenegger1
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2McMaster University, Hamilton, ON

190
PATTERNS OF RECURRENCE IN STAGE III NON-SMALL CELL LUNG CANCER TREATED WITH DEFINITIVE IMRT: EXPERIENCE AT AN ACADEMIC CANCER CENTRE
Mahbuba Meem, Andrea Bezjak, Srinivas Raman, Youquan Li, Andrew Hope, Alexander Sun
University of Toronto, Toronto, ON

191
CLINICAL OUTCOMES OF SURGICALLY UNRESECTABLE ENDOMETRIAL CANCERS
Jessica L Conway1, Jelena Lukovic2, Sarah E Ferguson2, Jiahui Zhang3, Wei Xu3, Neesha Dhani2, Jennifer Croke2, Anthony Fyles2, Michael Milosevic2, Alexandra Rink2, Marjan Rouzbahman3, Kathy Han2
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2Princess Margaret Cancer Centre, Toronto, ON
3University Health Network, Toronto, ON

192
PATIENT REPORTED OUTCOME MEASURES IN PATIENTS UNDERGOING RADIOTHERAPY FOR HEAD AND NECK CANCER
Sarah Hamilton1, Eric Tran1, Cheryl Ho1, Jonn Wu1, Eric Berthelet1, Kimberly DeVries1, Vincent Lapointe1, Angela Bowman1, Cindy Reynolds1, Robert Olson2
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2British Columbia Cancer Agency, Prince George, BC

193
ASSESSMENT OF INTER-FRACTIONAL ANATOMICAL AND DOSIMETRIC TRENDS IN A RETROSPECTIVE COHORT OF 200 HEAD AND NECK CANCER PATIENTS
Sarah Weppler1, Harvey Quon2, Craig A Beers1, Lukas Van Dyke2, Colleen Schinkel1, Wendy Smith1
1University of Calgary, Calgary, AB
2Tom Baker Cancer Centre, Calgary, AB

194
RESPONSE ASSESSMENT WITH 18F-FDG PET/CT SCAN IN PATIENTS WITH ANAL CANCER TREATED WITH RADICAL RADIOTHERAPY
Gaurav Bahl1, Soumyajit Roy2, Sheikh Nisar Ahmed1, Iulian Badragan3, Muhammad Zulfiqar1
1University of British Columbia, Abbotsford, BC
2University of Ottawa, Ottawa, ON
3University of British Columbia, Surrey, BC

195
CAN WE USE HOUNSFIELD UNIT RANGES AS SURROGATES FOR FUNCTIONAL LUNG AVOIDANCE IN 4-DIMENSIONAL COMPUTERIZED TOMOGRAPHY SIMULATION DATASETS: A PILOT STUDY
Ming Pan1, John Agapito2
1Western University, London, ON
2Windsor Regional Hospital Cancer Program, Windsor, ON

196
HYPOFRACTIONATED RADIOTHERAPY FOR SOFT TISSUE SARCOMAS - EARLY EXPERIENCE WITH 35GY IN 5 FRACTIONS
Mariana P Araujo, Carolyn R Freeman, Fabio L Cury
McGill University, Montreal, QC
197
IMPROVING WAIT-TIMES FOR RADIATION ONCOLOGY INTRA-TREATMENT VISITS
Tania Sasson, Estela Li, Jessica Gluszko, John Kildea, Sonia Skamene, Melissa Lam Shang Leen, Carolyn Freeman, Tarek Hijal, Steve Dodd
McGill University, Montreal, QC

198
A COMMUNITY- BASED ORTHOPEDIC RADIATION ONCOLOGY CLINIC (OROC): AN EARLY EXPERIENCE REPORT
Julie Blain, Richard Singh, Abhirami Hallock, Adrian Ishkanian, Brenda Luscombe, Janice Giesbrecht
McMaster University, St. Catharines, ON

199
THE CLINICAL SIGNIFICANCE OF BONE MINERAL DENSITY CHANGES FOLLOWING LONG TERM ANDROGEN DEPRIVATION THERAPY IN PROSTATE CANCER PATIENTS ENROLLED IN THE PCS V TRIAL
Rachel Vaughan1, James Man G1 Tsui1, Michael Jonathan Kucharczyk1, Abdenour Nabid2, Rédoane Bettahar3, Linda Suzanne Vincent4, André-Guy Martin5, Marjory Jolicoeur6, Michael Yassa7, Maroie Barkati7, Levon Igidbashian7, Boris Bahoric8, Robert Archambault9, Hugo Villeneuve7, Md Mohiuddin10, Tamim Niazi8
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2University of Sherbrooke, Sherbrooke, QC
3Centre Hospitalier Regional de Rimouski, Rimouski, QC
4Pavillon Ste-Marie Centre hospitalier régional de Trois-Rivières (CHRTR), Trois-Rivières, QC
5Laval University, Quebec, QC
6Charles LeMoyne Hospital, University of Sherbrooke, Longueuil, QC
7University of Montréal, Montreal, QC
8Jewish General Hospital, McGill University, Montréal, QC
9Gatineau and McGill University, Montréal, QC
10Dalhousie University, Halifax, NS

200
PEER REVIEW OF TARGET CONTOURS: UTILIZING FORCED FUNCTIONS WITHIN ARIA TO IMPROVE COMMUNICATION, COMPLIANCE, AND PROCESSES
Kerry Hanlon, Christine Baillie, Tracy Day, Peilong Zhang, Wladyslawa Cwajna, Mammo Yewondwossen, Helmut Hollenhorst
Dalhousie University, Halifax, NS

201
ESTABLISHMENT OF 1ST BOARD-CERTIFIED RADIATION ONCOLOGY RESIDENCY PROGRAM IN A WAR-TORN NATION: EXPERIENCE FROM IRAQ
1University of Alberta, Edmonton, AB
2Kurdistan Board of Medical Specialties, Sulaymaniya, IQ
3Kurdistan Board of Medical Specialties, Erbil, IQ
4University of Sulaimani, Sulaymaniya, IQ
5Baghdad Teaching Hospital, Baghdad, IQ
6University of California, Irvine, CA
7King Faisal Specialist Hospital and Research Center, Riyadh, SA
8Beatson Institute for Cancer Research, Glasgow, UK
9Springfield Hospital, Chelmsford, UK
10McGill University, Ottawa, ON
202
CHARACTERIZING THE INITIATION, COMPLETION, AND INTEGRATION OF ENTRUSTABLE PROFESSIONAL ACTIVITY ASSESSMENTS IN RADIATION ONCOLOGY RESIDENCY TRAINING AND CLINICAL WORKFLOW: AN INSTITUTIONAL PILOT OF COMPETENCE BY DESIGN
Amir Safavi, Julianna Sienna, Barbara K. Strang, Crystal Hann
McMaster University, Hamilton, ON

203
THYROID CANCER PATIENT INTERNET USE PATTERNS
Kimberley Chang¹, Eric Berthelet¹, Elizabeth Grubbs², Sarah Hamilton¹, Anand Karvat¹, Eric Tran¹, Jonn Wu¹, Paris-Ann Ingledew³
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²University of Texas MD Anderson Cancer Center, Houston, TX  
³British Columbia Cancer Agency, Vancouver, BC

204
QUESTIONING THE QUALITY OF ONLINE THYROID CANCER INFORMATION
Kimberley Chang¹, Elizabeth Grubbs², Paris-Ann Ingledew³
¹University of British Columbia, Vancouver, BC  
²University of Texas MD Anderson Cancer Center, Houston, TX  
³British Columbia Cancer Agency, Vancouver, BC

205
BRIDGING THE GAP: IDENTIFYING BARRIERS TO ENABLE THE INTEGRATION OF TOBACCO CESSATION INTO CANCER PATIENT CARE
Natasha McMaster, Murali Rajaraman, Carol-Anne Davis
Nova Scotia Health Authority, Halifax, NS

206
EVALUATION OF A JUNIOR FACULTY MENTORSHIP PROGRAM IN A RADIATION ONCOLOGY DEPARTMENT
Jennifer Croke, Sarah Tosoni, Jolie Ringash
University of Toronto, Toronto, ON

207
NON-ONCOLOGIST PHYSICIAN AWARENESS OF RADIATION THERAPY AT AN URBAN COMMUNITY HOSPITAL
Jonathan Klein¹, Hernando Salazar²
¹Albert Einstein College of Medicine, Bronx, NY  
²St. Barnabas Hospital, Bronx, NY

208
SURVEY FOR CHILDREN WITH CANCER UNDERGOING RADIATION THERAPY AND THEIR FAMILIES: ASSESSING WHICH TOOLS ARE MOST EFFECTIVE TO IMPROVE PATIENT EDUCATION AND REDUCE ANXIETY
Christine Rodgerson¹, Karen Goddard², Andrea Lo²
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²University of British Columbia, Vancouver, BC

209
PAN-CANADIAN SURVEY OF MEDICAL RADIATION TECHNOLOGIST'S VIEWS TOWARDS EVIDENCE-BASED PRACTICE, RESEARCH, BARRIERS, AND ENABLERS
Carol-Anne Davis, Kathryn Moran
Dalhousie University, Halifax, NS

ADDRESSING THE NEED FOR IMPROVED PROSTATE CANCER PATIENT PRE-SIMULATION EDUCATION
Lisa Bourne¹, Carol-Anne Davis², David Bowes², Raymond Wright¹, Kristy Thurber¹, Leslie Hill¹, Meg McCallum¹
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DEVELOPING A STRATEGIC PLAN FOR A PROVINCIAL RADIATION TREATMENT PROGRAM TO ADVANCE THE QUALITY OF CARE FOR PATIENTS
Julie Himmelman¹, Farzana McCallum¹, Eric Gutierrez¹, Carina Simniceanu¹, Elaine Meertens¹, Jean-Pierre Bissonnette¹,² Margaret Hart¹, Michael Brundage¹, Padraig Warde¹,²
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PATIENT REPORTED OUTCOMES USED IN RADIATION PROGRAMS ACROSS CANADA
Erika Brown¹, Jennifer O'Donnell², Lisa Barbera³, Louise Bird¹, Amanda Caissie⁴, Carol-Anne Davis⁵, John Kidea⁶, Michael Milosevic⁷, Robert Olson⁸, Michael Brundage²
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90-DAY MORTALITY AFTER RADICAL RADIOTHERAPY FOR HEAD AND NECK CANCER: A POPULATION-BASED COMPARISON BETWEEN RURAL AND URBAN PATIENTS
Roel Schlijper¹, Siske Bos¹, Sarah Hamilton², Eric Tran², Eric Berthelet², Jonn Wu², Robert Olson¹
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²University of British Columbia, Vancouver, BC

POPULATION-BASED OUTCOMES OF PARAGANGLIOMAS IN BRITISH COLUMBIA
Michael Waine¹, Eric Berthelet¹,², Jonn Wu¹,², Sarah Hamilton¹,², Karen Goddard¹,², Sophie Sun¹,², Tony Ng¹,³, Eric Tran¹,²
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PATTERNS OF HEREDITARY REFERRAL AND IDENTIFICATION OF GENETIC MARKERS FOR PARAGANGLIOMAS IN BRITISH COLUMBIA
Michael Waine¹, Eric Berthelet¹,², Jonn Wu¹,², Sarah Hamilton¹,², Karen Goddard¹,², Sophie Sun¹,², Tony Ng¹,³, Eric Tran¹,²
¹University of British Columbia, Vancouver, BC
²British Columbia Cancer Agency, Vancouver, BC
³Vancouver General Hospital, Vancouver, BC
216
THE IMPACT OF ROUTINE ESAS USE ON EMERGENCY DEPARTMENT VISITS AND HOSPITALIZATIONS: A POPULATION-BASED RETROSPECTIVE MATCHED COHORT STUDY
Lisa Barbera¹, Rinku Sutradhar², Craig Earle², Nicole Mittman³, Hsien Yeang Seow², Doris Howell⁴, Qing Li², Deva Thiruchelvam²
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⁴University Health Network, Toronto, ON

217
SECONDARY MALIGNANCY AFTER RADIOTHERAPY FOR TESTICULAR CANCER: DOES THE RISK PERSIST IN THE MODERN ERA?
David Bowes, Derek Wilke, Jean-Philippe Pignol
Dalhousie University, Halifax, NS

218
HOW SCIENTIFIC EVIDENCE IS USED TO ADOPT COMPLEX INNOVATIONS IN CANCER CARE: A MULTIPLE-CASE STUDY FROM NOVA SCOTIA, CANADA
Murali Rajaraman¹, Robin Urquhart¹, Cynthia Kendall¹, Laurette Geldenhuys¹, Andrew Ross¹, Amy Folkes¹, Vickie Sullivan², Daniel Rayson¹, Geoffrey A. Porter¹
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219
RADIATION INDUCED SECONDARY LUNG CANCER IMPACTS MAINLY EARLY STAGE BREAST CANCERS
Jean-Philippe Pignol¹, Nienke Hoekstra², Derek Wilke¹
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220
Nikesh Hanumanthappa¹, Aldrich Ong¹, Youn Tae Chung¹, James Beck², Rashmi Koul¹, Bashir Bashir¹, Andrew Cooke¹, Maged Nashed¹, Arbind Dubey¹, William Hunter¹, Julian Kim¹
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²CancerCare Manitoba, Winnipeg, MB

221
IMPLEMENTATION OF A PROSPECTIVE MULTIDISCIPLINARY CLINICAL DATABASE FOR HEAD AND NECK CANCER AT THE OTTAWA HOSPITAL
Jayson Lee Azzi, André Lamothe, Marc Gaudet
University of Ottawa, Ottawa, ON

222
A SINGLE CENTRE’S REVIEW OF EMERGENT AND URGENT PALLIATIVE RADIOTHERAPY: ARE WE COMPLIANT WITH PROVINCIAL POLICY?
Shelby Grady¹, Ashley Hudson¹, Gunita Mitera², Krista McLeod¹, Amanda Caissie³
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²University of Toronto, Toronto, ON
³Dalhousie University, Saint John, NB

223
IMPROVING PATIENT EXPERIENCE IN HEALTH CARE AND ONCOLOGY: A SCOPING REVIEW
Petra Grendarova, Marcus Vaska, Lisa Barbera
University of Calgary, Calgary, AB
224 RADIATION DOSES TO THE LEFT ANTERIOR DESCENDING ARTERY AND HEART IN LEFT-SIDED BREAST CANCER PATIENTS TREATED WITH DEEP INSPIRATION BREATH HOLD AND FREE BREATHING TECHNIQUES
Petra Grendarova1, Michael Roumeliotis1, Jeffrey Cao1, Karen Long2, Sarah Quirk1
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2Tom Baker Cancer Centre, Calgary, AB

225 DYNAMIC TUMOUR TRACKING (DTT) FOR HEPATOCELLULAR CARCINOMA USING A GIMBALED LINAC STEREOTACTIC BODY RADIATION THERAPY (SBRT) SYSTEM
Emma Maria Dunne, Alanah Bergman, Christine Rodgerson, Marie-Laure Camborde, Tania Karan, Mitchell Liu, Devin Schellenberg, Roy Ma
British Columbia Cancer Agency, Vancouver, BC

226 OUTCOMES OF 34 GY IN SINGLE-FRACTION STEREOTACTIC ABLATIVE RADIATION THERAPY (SABR) IN LUNG TUMOURS
Samaher Ashram, Sergio Faria, Baderaldeen Altazi, Neil Kopec, Marie Duclos, Russel Ruo
McGill University, Montreal, QC

227 OUTCOMES OF LIVER TRANSPLANTATION FOLLOWING STEREOTACTIC BODY RADIOTHERAPY FOR HEPATOCELLULAR CARCINOMAS
Yizhou Zhao1, Emma Dunne2, Roy Ma1, Devin Schellenberg1
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228 OUTCOMES OF STEREOTACTIC ABLATIVE RADIOTHERAPY FOR LYMPH NODE OLIGOMETASTASES
Yizhou Zhao1, Rosanna Yeung2, Laura Beaton2, Mitchell Liu2, Robert Olson3, Devin Schellenberg1
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2University of British Columbia, Vancouver, BC
3University of British Columbia, Prince George, BC

229 SINGLE-FRACTION STEREOTACTIC RADIOSURGERY ALONE VERSUS HIPPOCAMPAL-AVOIDANCE WHOLE BRAIN RADIOTHERAPY FOR PATIENTS WITH 10-30 BRAIN METASTASES: A DOSIMETRIC ANALYSIS
Timothy Nguyen, Arjun Sahgal, Jay Detsky, Hany Soliman Sten Myrehaug, Chia-Lin Tseng, Zain Husain, Anne Carty, Sunit Das, Victor Yang, Young Lee, Arman Sarfethnia, Brige Chugh, Collins Yeboah, Mark Ruschin
University of Toronto, Toronto, ON

230 PREDICTORS OF LEPTOMENINGEAL DISEASE AFTER HYPOFRACTIONATED STEREOTACTIC RADIOTHERAPY FOR INTACT AND RESECTED BRAIN METASTASES
Tim Nguyen, Arjun Sahgal, Jay Detsky, Eshetu Atenafu, Sten Myrehaug, Chia-Lin Tseng, Zain Husain, Mark Ruschin, Chris Heyn, Hany Soliman
University of Toronto, Toronto, ON
231
A PHASE II STUDY TO DETERMINE EFFICACY OF STEREOTACTIC BODY RADIOTHERAPY (SBRT) FOR SPINAL/PARA-SPINAL METASTASES FOR PATIENTS AT PRINCESS MARGARET HOSPITAL FROM 2011 TO 2015.
Aananthan Thangaroopan, David Shultz
University of Toronto, Toronto, ON

232
AUTO-GENERATED TEMPLATE TRAJECTORIES FOR RADIOSURGERY THAT RELY ON CRANIAL ANATOMY: A CASE STUDY
John Lincoln1, R. Lee MacDonald2, Brian Little3, Alasdair Syme3, Christopher G. Thomas3
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2Sunnybrook Health Sciences Centre, Toronto, ON
3Nova Scotia Health Authority, Halifax, NS

233
STEREOTACTIC BODY RADIOTHERAPY FOR HEPATOCELLULAR CARCINOMA WITH MACROVASCULAR INVASION
Aisling Barry1, Eshetu Atenafu1, John Kim1, James Brierley1, Jolie Ringash1, Anthony Brade1, Robert Dinniwell2, Rebecca Wong1, Charles Cho1, Tae Kim1, Gonzalo Sapisochin1, Laura Dawson1
1University of Toronto, Toronto, ON
2Western University, London, ON

234
SMALL BOWEL TOLERANCE IN STEREOTACTIC ABLATIVE RADIOTHERAPY (SABR)
Sergio Faria, Neil Kopek, Samaher Ashram, Horacio Patrocinio
McGill University, Montreal, QC

235
RADIATION NECROSIS FOLLOWING FIVE DAILY FRACTIONS OF STEREOTACTIC RADIOTHERAPY FOR SURGICAL CAVITIES AND INTACT BRAIN METASTASES
Salman Faruqi1, Hany Soliman2, Sten Myrehaug2, K. Liang Zeng2, Zain Husain2, Eshetu Atenafu2, Chia-Lin Tseng2, Sunit Das2, James Perry2, Pejman Maralani2, Chris Heyn2, Todd Mainprize2, Mark Ruschin2, Arjun Sahgal2
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2University of Toronto, Toronto, ON

236
STEREOTACTIC PELVIC ADJUVANT RADIATION THERAPY IN CANCERS OF THE UTERUS (SPARTACUS) - A PLANNING STUDY
Adam Gladwish1, Keith Nakonechny2, Melanie Davidson1, David D'Souza3, Kathy Han1, Lucas Mendez3, Vikram Velker3, Eric Leung1
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2Simcoe Regional Cancer Program, Barrie, ON
3Western University, London, ON

237
STEREOTACTIC RADIOTHERAPY TO SPINE AND NON-SPINE BONE METASTASES IN NOVA SCOTIA
Derek Wilke, David Bowes, Lara Best, Slawa Cwajna, Liam Mulroy, Maureen Nolan, Nikhilesh Patil, Murali Rajaraman, Helmut Hollenhorst
Dalhousie University, Halifax, NS

238
STEREOTACTIC BODY RADIOTHERAPY FOR OLIGOMETASTATIC CANCER: A RAPID REVIEW OF THE CLINICAL EFFECTIVENESS AND COST-EFFECTIVENESS
Jill Sutherland1, Chantelle Lachance2, Kaitryn Campbell3, Brit Cooper-Jones4
239
PROSPECTIVE CASE SERIES IN THE USE OF NON-LIVER ABDOMINAL AND PELVIC SBRT IN THE CONTEXT OF OLIGOMETASTATIC DISEASE
Martin Doak, Svetlana Kuznetsova
University of Calgary, Calgary, AB

240
FEASIBILITY AND ACCEPTABILITY OF MEASURING CERVIX CANCER SPECIFIC PATIENT-REPORTED OUTCOMES IN CLINICAL PRACTICE
Soha Atallah1, Lisa Barbera2, Matthew Folwell1, Doris Howell1, Jennifer Croke1
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2University of Calgary, Calgary, AB

241
RESPONSE AND INTERVENTION TO ELEVATED ESAS SCORES: A CHART AUDIT OF GYNECOLOGIC ONCOLOGY CLINICS
Soha Atallah, Jackie Bender, Anthony Fyles, Kathy Han, Michael Milosevic, Sarah E Ferguson, Stephanie Lheureux, Zhihui Amy Liu
University of Toronto, Toronto, ON

242
LATE EFFECTS IN SURVIVORS TREATED FOR LYMPHOMA AS ADOLESCENTS AND YOUNG ADULTS
Andrea Lo, Ben Chen, Vanessa Samuel, Kerry Savage, Ciara Freeman, Karen Goddard
University of British Columbia, Vancouver, BC

243
EVALUATING THE DISCUSSION OF LATE EFFECTS AND SCREENING RECOMMENDATIONS IN SURVIVORS OF ADOLESCENT AND YOUNG ADULT (AYA) LYMPHOMA
Andrea Lo, Vanessa Samuel, Ben Chen, Kerry Savage, Ciara Freeman, Karen Goddard
University of British Columbia, Vancouver, BC

244
LONG-TERM OUTCOMES FOR PATIENTS WITH LIMITED STAGE FOLLICULAR LYMPHOMA: AN UPDATE OF THE BC CANCER EXPERIENCE
Andrea Lo1, Belinda Campbell2, Tom Pickles1, Christina Parsons1, Laurie Sehn1, Joseph Connors1, Kerry Savage1
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