Tuesday September 28, 2021

12:30-1:30
**Women in Radiation Medicine**
Moderator: Jennifer Croke/Sarah Hamilton

Title
Carolyn Freeman

Wednesday September 29, 2021

10:00-2:45
**Resident Refresher Course**
Facilitator: Jennifer Croke/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 skin, head and neck and breast cancer.
- explore the evidence and indications for SABR in oligo-metastatic disease.
- discuss the principles of HDR versus LDR brachytherapy in prostate cancer.

10:00-10:05
Welcome and Introductions
Jennifer Croke, Sarah Hamilton

10:05-10:35
Skin
Paris-Ann Ingledew

10:35-10:50
Question and Answer Period

10:50-11:20
Oligometastases/SABR
Devin Schellenberg

11:20-11:35
Question and Answer Period

11:35-11:45
Break

11:45-12:15
Head and Neck
Jasbir Jaswal

12:15-12:30
Question and Answer Period
12:30-1:15  
Lunch

1:15-1:45  
Prostate Brachytherapy (LDR/HDR)  
Juanita Crook

1:45-2:00  
Question and Answer Period

2:00-2:30  
Breast  
Pauline Truong

2:30-2:45  
Question and Answer Period

**Resident Counselling Networking Event**  
TBD
Thursday September 30, 2021

10:00-10:10
Welcome and Introductions
Meredith Giuliani
Corinne Doll

10:10-10:55
Theme Symposium
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.

10:55-11:10
Question and Answer Period

11:10-11:20
Break

11:20-12:40
Plenary Abstracts
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.

11:20-11:35
1 ELECTIVE PELVIC NODAL IRRADIATION WITH A SIMULTANEOUS HYPOFRACTIONATED INTEGRATED PROSTATE BOOST FOR LOCALIZED HIGH RISK PROSTATE CANCER: LONG TERM RESULTS FROM A PROSPECTIVE CLINICAL TRIAL
Rachel Glicksman1, Andrew Loblaw1, Gerard Morton1, Ewa Szumacher1, Hans T Chung1, Danny Vesprini1, William Chu1, Stanley K Liu1, Richard Choo2, Andrea Deabreu3, Alexandre Mamedov3, Liying Zhang3, Patrick Cheung1
1University of Toronto, Toronto, ON
2Mayo Clinic, Rochester, MN
3Sunnybrook-Odette Cancer Centre, Toronto, ON

11:35-11:40
Question and Answer Period

11:40-11:55
2 POPULATION BASED PHASE II TRIAL OF STEREOTACTIC ABLATIVE RADIOThERAPY (SABR) FOR UP TO 5 OLIGOMETASTASES: PRELIMINARY RESULTS OF THE SABR-5 TRIAL
Robert Olson1, Will Jiang1, Mitchell Liu2, Alanah Bergman2, Devin Schellenberg3, Benjamin Mou4, Abraham Alexander5, Hannah Carolan2, Fred Hsu6, Stacy Miller1, Siavash Atrchian4, Elisa Chan2, Clement Ho3, Islam Mohamed4, Angela Lin4, Tanya Berrang5, Andrew Bang2, Nick Chng7, Quinn
11:55-12:00
Question and Answer Period

12:00-12:15
3 TARGETING PPAR SIGNALING TO REVERSE LYMPHEDEMA SECONDARY TO CANCER TREATMENT
Jennifer Yin Yee Kwan, Pierre Antoine Bissey, Wei Shi, Justin Williams, Siba Haykal, Benjamin Haibe-Kains, Kenneth W. Yip, Fei-Fei Liu
University of Toronto, Toronto, ON

12:15-12:20
Question and Answer Period

12:20-12:35
4 CHEMORADIATION WITH OR WITHOUT METFORMIN IN LOCALLY ADVANCED CERVICAL CANCER: PHASE II RANDOMIZED TRIAL
Kathy Han1, Anthony Fyles1, Tina Shek2, Jennifer Croke1, Neesha Dhani1, David D'Souza3, Ting-Yim Lee3, Naz Chaudary1, Rob Cairns2, Melania Pintilie2, Douglass Vines1, David Jaffray1, Ur Metser1, Michael Milosevic1, Marianne Koritzinsky1
1University of Toronto, Toronto, ON
2University Health Network, Toronto, ON
3Western University, London, ON

12:35-12:40
Question and Answer Period

12:40-1:20
Lunch
Yoga 12:50-1:10
Visit the Virtual Exhibit Hall
Poster Walk
**Jean Roy Lecture**

Introduction:

**Innovation, Precision, Adaptability, Knowledge: The art of brachytherapy**
Marjory Jolicoeur

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

- understand the place of brachytherapy in the cancer care strategies.
- discuss the need for imaging using Breast and GYN brachytherapy.
- comment briefly on the evolution of brachytherapy.
- discuss the challenges faced through the pandemic and the lessons learned for the future.

1:55-2:10  
Question and Answer Period

2:10-3:10  
**Brachytherapy Oral Session**

Moderators:

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

- recognize important aspects of treatment planning and delivery of brachytherapy.
- review current practices and outcomes of brachytherapy.

2:10-2:17  
5 BIOCHEMICAL FAILURE AND TOXICITY OF MAGNETIC RESONANCE IMAGING DOSE PAINTING TO DOMINANT INTRAPROSTATIC LESION IN PROSTATE HIGH DOSE RATE BRACHYTHERAPY  
Adrian Cozma1, Wing Yan Lai2, Merrylee McGuffin2, Darby Erler2, Gerard Morton1, Hans Chung1, Chia-Lin Tseng1, Liying Zhang3, Patrick Cheung1, William Chu1, Danny Vesprini1, Melanie Davidson1, Ananth Ravi1, Renee Korol1, Andrew Loblaw1  
1University of Toronto, Toronto, ON  
2Sunnybrook-Odette Cancer Centre, Toronto, ON  
3Sunnybrook Health Sciences Centre, Toronto, ON

2:17-2:20  
Question and Answer Period

2:20-2:27  
6 ULTRA-HYPOFRACTIONATED (UHF) COMPARED TO MODERATE-HYPOFRACTIONATED (MHF) PROSTATE IGRT WITH HDR BRACHYTHERAPY BOOST(BB): FOUR-YEAR TOXICITIES AND LOCAL CONTROL  
Marie-Michèle Beaudry, Damien Carignan, André-Guy Martin, William Foster, Eric Vigneault, Marie-Claude Lavallée, Sylvianne Aubin, Eric Poulin, Bernard Lachance, Frederic Lacroix, Philippe Després, Luc Beaulieu  
CHU de Québec-Université Laval, Ville de Québec, QC

2:27-2:30  
Question and Answer Period
Oral Session 1 – Education

Moderators:

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

- review current best practices in cancer education.
- explore methodologist in cancer education science.
11 THE CANADIAN ASSOCIATION OF RADIATION ONCOLOGY 2020 RADIATION ONCOLOGIST BURNOUT AND WORK ENGAGEMENT SURVEY
Mira Keyes¹, Michael Leiter², Paris Ann Inglede1w1, Scott Tyldesley1, Maryam Dosani¹, Michael Brundage³, Shaun Loewen⁴
¹University of British Columbia, Vancouver, BC
²Acadia University, Wolfville, NS
³Queen’s University, Kingston, ON
⁴University of Alberta, Calgary, AB

2:17-2:20
Question and Answer Period

12 IS REMOTE LEARNING AS EFFECTIVE AS IN-PERSON LEARNING FOR CONTOURING EDUCATION? A COMPARISON OF FACE-TO-FACE VERSUS ONLINE DELIVERY OF THE ANATOMY AND RADIOLOGY CONTOURING BOOTCAMP
Paige Eansor¹, Leah A. D’Souza², Madeleine E. Norris³, Katherine E. Willmore¹, Zahra Kassam⁴, Eric Leung⁵, Anthony C. Nichols⁶, Manas Sharma⁶, Keng Yeow Tay⁶, Vikram Velker⁶, Glenn S. Bauman⁶, Andrew Warner⁶, Nicole Campbell¹, David A. Palma⁶
¹Western University, London, ON
²Rush University Medical Center, Chicago, IL
³University of California San Francisco, San Francisco, CA
⁴University of Toronto, Toronto, ON
⁵Odette Cancer Centre, Toronto, ON
⁶London Health Sciences Centre, London, ON

2:27-2:30
Question and Answer Period

13 BURNOUT AND RESILIENCY ASSESSMENT OF CANADIAN RADIATION ONCOLOGY TRAINEES DURING THE EARLY PHASE OF THE COVID-19 PANDEMIC
Che Hsuan David Wu, Tasnima Abedin, Shaun Loewen, Natalie Logie
University of Calgary, Calgary, AB

2:37-2:40
Question and Answer Period

14 LEARNING IN 360 DEGREES: THE USE OF VIRTUAL REALITY FOR RADIATION THERAPY PATIENT EDUCATION
Merrylee McGuffin¹, Brian Liszewski², Krista Dawdy², Lisa Di Prospero², Yannie Lai¹, Fahad Alam²
¹Sunnybrook-Odette Cancer Centre, Toronto, ON
²University of Toronto, Toronto, ON

2:47-2:50
Question and Answer Period
2:50-2:57
15 PREPARING FOR BEREAVEMENT: A QUALITATIVE EXPLORATION OF INFORMATION AND SUPPORT
FOR PRIMARY CAREGIVERS OF PATIENTS WITH TERMINAL CANCER UNDERGOING PALLIATIVE
RADIATION THERAPY
Kelly Linden1, Sarah Smith2, Kristopher Dennis1
1The Ottawa Hospital, Ottawa, ON
2Sheffield Hallam University, Azienda Ospedaliero-Universitaria Careggi, Sheffield, UK

2:57-3:00
Question and Answer Period

3:00-3:07
16 REQUISITE KNOWLEDGE AND SKILLS FOR THE INTEGRATION OF MRI IN RADIATION THERAPY
PRACTICE: AN INTERNATIONAL MODIFIED DELPHI STUDY
Laura D’Alimonte1, Mikki Campbell2, Darby Erler2, Kristen Porter3, Sara Morassaei4, Jennifer Croke5
1University of Toronto, Windsor, ON
2Sunnybrook-Odette Cancer Centre, Toronto, ON
3Sunnybrook Health Sciences Centre, Toronto, ON
4Queen’s University, Kingston, ON
5Princess Margaret Cancer Centre, Toronto, ON

3:07-3:10
Question and Answer Period

2:10-3:10
Oral Session 2 – Applied Technology and Physics/Basic and Translational Biology
Moderators:

Objectives: By the end of this session, the participants will be able to:
• discuss novel technologies utilized in the planning and delivery of radiotherapy.
• explore the impact of automation and big data on cancer control.

2:10-2:17
17 ASSESSMENT OF SALVAGE RADIATION THERAPY VOLUME BASED ON 18F-DCFPYL PSMA PET/CT IN
PATIENTS WITH BIOCHEMICAL RECURRENCE AFTER RADICAL PROSTATECTOMY
Justin Oh1, Mira Keyes2 Sara Harsini2, Francois Benard2
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC

2:17-2:20
Question and Answer Period

2:20-2:27
18 PSMA-PET-BASED RESPONSE ASSESSMENT OF METASTATIC PROSTATE CANCER RESPONSE TO
RADIOThERAPY: A CASE SERIES.
Aruz Mesci, Mohammad Gouran-Savadkoohi, Jeffrey Greenspoon, Anil Kapoor, Himanshu Lukka,
Theodoros Tsakiridis
McMaster University, Hamilton, ON

2:27-2:30
Question and Answer Period
2:30-2:37
19 DEVELOPMENT OF WEB-BASED QUALITY-ASSURANCE TOOL FOR RADIOTHERAPY TARGET DELINEATION FOR HEAD AND NECK CANCER: QUALITY EVALUATION OF NASOPHARYNGEAL CARCINOMA
Joseph Marsilla, Michal Kazmierski, Denis Tkachuk, Shao Hui Huang, Wei Xu, John Cho, Jolie Ringash, Scott Bratman, Benjamin Haibe-Kains, Jun Won Kim, Andrew Hope
University of Toronto, Toronto, ON

2:37-2:40
Question and Answer Period

2:40-2:47
20 MACHINE LEARNING CLASSIFIER TO REPRODUCE LUNG METASTASES TUMOUR BOARD DECISIONS
Christina Seo, Efthimia Karageorgos, Areej Waqar, Yiwen Xu, Tom Waddell, Marcelo Cypel, Meredith Giuliani, Derek S. Tsang, Tony Tadic, Timothy Chan, Srinivas Raman, Daniel Letourneau
University of Toronto, Toronto, ON

2:47-2:50
Question and Answer Period

2:50-2:57
21 RESPONSE AND TOXICITY PATTERNS SEEN IN PATIENTS TREATED WITH COMBINATION IMMUNOTHERAPY AND RADIOTHERAPY IN THE UNSCARRED (UNRESECTABLE SQUAMOUS CELL CARCINOMA TREATED WITH AVELUMAB AND RADICAL RADIOTHERAPY) STUDY
Deepak Dinakaran1, Naresh Jha2, Kurian Joseph2, John Walker1
1University of Alberta, Edmonton, AB
2Cross Cancer Institute, Edmonton, AB

2:57-3:00
Question and Answer Period

3:00-3:07
22 ARTIFICIAL INTELLIGENCE FOR CLINICAL DECISION-MAKING SUPPORT IN RADIATION THERAPY FOR CNS TUMOURS
Salem Alfaifi, Pawel Siciarz, Shrinivas Rathod, Boyd McCurdy
University of Manitoba, Winnipeg, MB

3:07-3:10
Question and Answer Period

3:10-3:40
Break/Poster Walk
Oral Session 3 – Population Science and Health Services

Moderators:

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

- discuss current paradigms in population based cancer control.
- review the impact of social determinants of health on cancer outcomes.

3:40-3:47
23 COST-EFFECTIVENESS OF SABR IN OLIGOMETASTATIC CANCER: AN ECONOMIC ANALYSIS BASED ON LONG-TERM RESULTS OF THE SABR-COMET RANDOMIZED TRIAL
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
3Amsterdam 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 Health, Melbourne, ON
9Juravinski Cancer Centre, Hamilton, ON
10McGill University Health Centre, Montreal, QC
11British Columbia Cancer Agency, Vancouver, BC
12Sunnybrook-Odette Cancer Centre, Toronto, ON

3:47-3:50
Question and Answer Period

3:50-3:57
24 POPULATION-BASED ANALYSIS OF OUTCOMES FOR PATIENTS WITH BRAIN METASTASES FROM EPIDERMAL GROWTH FACTOR RECEPTOR MUTATION POSITIVE NON-SMALL CELL LUNG CANCER TREATED WITH TYROSINE KINASE INHIBITOR ALONE OR COMBINED WITH RADIOTHERAPY
Timothy Kong1, Alan Nicholl1, Cheryl Ho1, Alexander Benny1, Negar Chooback2, Ian Fraser3, Lovedeep Gondara1, Shilo Lefresne1
1University of British Columbia, Vancouver, BC
2Queen's University, Kingston, ON
3National Health Service, Exeter, UK

3:57-4:00
Question and Answer Period

4:00-4:07
25 EXTREME WEEKLY LOCOREGIONAL HYPOFRACTIONATED RADIATION IN ELDERLY WOMEN WITH NON-METASTATIC BREAST CANCER
Fadoua Rais
McGill University, Montreal, QC

4:07-4:10
Question and Answer Period
4:10-4:17
26 ROLE OF ADJUVANT RADIOTHERAPY IN THE MANAGEMENT OF UROTHELIAL CARCINOMA OF UPPER URINARY TRACT - A SYSTEMATIC REVIEW
Osbert Zalay, Michael Yan, Aamer Mahmud
Queen’s University, Kingston, ON

4:17-4:20
Question and Answer Period

4:20-4:27
27 PROVINCE-WIDE ANALYSIS OF PATIENT REPORTED OUTCOMES FOR STAGE IV NON-SMALL CELL LUNG CANCER
Michael C Tjong1, Mark Doherty2, Hendrick Tan2, Wing C Chan3, Haoyu Zhao4, Julie Hallet2, Gail Darling5, Biniam Kidane6, Frances C Wright2, Alyson Mahar6, Laura E Davis7, Victoria Delibasic2, Ambika Parmar2, Nicole Mittmann1, Natalie G Coburn2, Alexander V Louie2
1University of Toronto, Toronto, ON
2Sunnybrook-Odette Cancer Centre, Toronto, ON
3Institute for Clinical Evaluative Sciences, Toronto, ON
4University of Toronto, Toronto, ON
5University Health Network, Toronto, ON
6University of Manitoba, Winnipeg, MB
7McGill University, Montreal, QC

4:27-4:30
Question and Answer Period

4:30-4:37
28 THE READABILITY OF ONLINE CANADIAN RADIOTHERAPY PATIENT EDUCATIONAL MATERIALS
Mustafa Al Balushi, Brock Debenham, Sunita Ghosh
University of Alberta, Edmonton, AB

4:37-4:40
Question and Answer Period

3:40-4:40
**Oral Session 4 – Gastrointestinal and Genitourinary Cancer**
Moderators:

Objectives: By the end of this session, the participants will be able to:
- discuss current paradigms in gastrointestinal cancer care
- explore the impact of hypofractionation on prostate cancer outcomes

3:40-3:47
29 TUMOUR VOLUME PREDICTS FOR PATHOLOGICAL COMPLETE RESPONSE IN RECTAL CANCER PATIENTS TREATED WITH NEOADJUVANT CHEMORADIATION
Fan Yang1, Jordan Hill1, Aswin Abraham1, Sunita Ghosh1, Tanner Steed1, Clay Kurtz1, Kuirian Joseph1, Jihyun Yun1, Brad Warkentin1, JoAnn Thai1, Tirath Nijjar1, Diane Severin1, Keith Tankel1, Alysa Fairchild2, Nawaid Usmani1
1University of Alberta, Edmonton, AB
2Alberta Health Services, Edmonton, AB

3:47-3:50
Question and Answer Period
3:50-3:57
30 SYSTEMATIC REVIEW AND META-ANALYSIS OF RADIOTHERAPY FOR T3N0 RECTAL CANCER TREATED WITH TOTAL MESORECTAL EXCISION
Andrew Bang1, Michael Tjong2, Jesus Fabregas3, Stefania Papatheodorou4, Michael Kucharczyk5
1University of British Columbia, Victoria, BC
2University of Toronto, Toronto, ON
3Billings Clinic, Montana, US
4Harvard T. H. Chan School of Public Health, Boston, MA
5Dalhousie University, Halifax, NS

3:57-4:00
Question and Answer Period

4:00-4:07
31 THE USE OF PROTON PUMP INHIBITORS DOES NOT ADVERSELY INFLUENCE PATHOLOGICAL AND CLINICAL OUTCOMES WHEN USED WITH CAPECITABINE IN THE NEO-ADJUVANT CHEMO-RADIATION TREATMENT OF LOCALLY ADVANCED RECTAL CANCERS
Anjali Menon1, Aswin George Abraham1, Maria Mahfouz2, Joseph J Thachuthara3, Heather Warkentin1, Sunita Ghosh1, Nawaid Usmani1, Kim Paulson1, Tirath Nijjar1, Diane Severin1, Keith Tankel1, Karen Mulder1, Wilson Roa1, Kurian Joseph1
1University of Alberta, Edmonton, AB
2RCSI University of Medical and Health Sciences, Dublin, IE
3MacEwan University, Edmonton, AB

4:07-4:10
Question and Answer Period

4:10-4:17
32 CONVENTIONAL VERSUS HYPOFRACTIONATION RADIATION FOR HIGH RISK PROSTATE CANCER PATIENTS (CHIRP): 24 MONTHS PATIENT-REPORTED QUALITY OF LIFE OUTCOMES OF THE RANDOMIZED PHASE II CHIRP TRIAL
University of Alberta, Edmonton, AB

4:17-4:20
Question and Answer Period

4:20-4:27
33 ELECTIVE NODAL ULTRA HYPOFRACTIONATED RADIATION FOR PROSTATE CANCER: SAFETY AND EFFICACY FROM FOUR PROSPECTIVE CLINICAL TRIALS
Rachel Glicksman1, Stanley K Liu1, Patrick Cheung1, Danny Vesprini1, William Chu1, Hans T Chung1, Gerard Morton1, Andrea Deabreu2, Melanie Davidson1, Ananth Ravi1, Hima Bindu Musunuru3, Joelle Helou1, Ling Ho1, Liying Zhang2, Andrew Loblaw1
1University of Toronto, Toronto, ON
2Sunnybrook-Odette Cancer Centre, Toronto, ON
3University of Pittsburgh, Pittsburgh, PA

4:27-4:30
Question and Answer Period
4:30-4:37
34 INFECTIOUS RISK AFTER PROSTATIC TRANSRECTAL FIDUCIAL MARKER IMPLANTATION IN RADIATION THERAPY
Thomas Reynaud, Ibtihel Ben Aicha, Damien Carignan, Claude Pelchat, Cédric Fiset, William Foster, André-Guy Martin, Eric Vigneault
CHU de Québec-Université Laval, Québec, QC

4:37-4:40
Question and Answer Period

3:40-4:40

Oral Session 5 - Head and Neck Cancer
Moderators:

Objectives: By the end of this session, the participants will be able to:
• discuss advances in radiotherapy delivery to improve outcomes in head and neck cancers
• review the management of thyroid cancer

3:40-3:47
35 ADHERENCE TO THE AMERICAN THYROID ASSOCIATION GUIDELINES IN THE MANAGEMENT OF DIFFERENTIATED THYROID CANCER: IMPACT ON SURVIVAL OUTCOMES
Aria Shokoohi, Cheryl Ho, Sam M. Wiseman, George Sexsmith, Jonn Wu, Sabrina Gill, Adam White, Eitan Prisman, Eric Tran, Sarah Hamilton, Eric Berthelet
University of British Columbia, Vancouver, BC

3:47-3:50
Question and Answer Period

3:50-3:57
36 ASSOCIATION OF TUMOUR VOLUME AND OUTCOMES IN T3 LARYNX CANCER WITH ORGAN PRESERVATION
Nauman Malik1, Nicolin Hainc1, Gia Gill2, Steven Nakoneshny3, Paul Kerr2, Wayne Matthews3, Adam Globerman2, Joseph Dort3, Pejman Maralani1, Eugene Yu1, John Lysack3, Ali Hosni Abdalaty1, Irene Karam1, Antoine Eskander1
1University of Toronto, Toronto, ON
2University of Manitoba, Winnipeg, MB
3University of Calgary, Calgary, AB

3:57-4:00
Question and Answer Period

4:00-4:07
37 COMPARISON OF RECURRENCE WITH HIGH RETROPHARYNGEAL NODAL-SPARING RADIATION TECHNIQUE IN HPV-RELATED AND HPV-UNRELATED OROPHARYNGEAL CANCER IN THE IMRT ERA
Stephan Tran, Isaac Kong, Jim Wright, Stephen Sagar, Do-Hoon Kim, Han Zhang, Nhu-Tram Nguyen
McMaster University, Hamilton, ON

4:07-4:10
Question and Answer Period
4:10-4:17
Melodie Kim1, Arshdeep Marwaha1, Rachel Zhao1, Rohit Malyala1, Dylan Narinesingh2, Jeremy Hamm2, Ryan Proulx2, Jasbir Jaswal2, Anand Karvat2, Carson Leong2, Andra Krauze2
1University of British Columbia, Vancouver, BC
2University of British Columbia, Surrey, BC

4:17-4:20
Question and Answer Period

4:20-4:27
39 PATIENT REPORTED OUTCOMES AND COMPLICATIONS DURING HEAD & NECK CANCER RADIOTHERAPY BEFORE VERSUS DURING THE COVID-19 PANDEMIC
Sarah Hamilton1, Eric Berthelet1, Matthew Chan1, Eric Tran1, Jonn Wu1, Robert Olson2
1British Columbia Cancer Agency, Vancouver, BC
2British Columbia Cancer Agency, Prince George, BC

4:27-4:30
Question and Answer Period

4:30-4:37
40 WORKFLOW AND INITIAL EXPERIENCE OF GLIOMA RADIOTHERAPY ON A HIGH FIELD 1.5 TESLA MR-LINAC
Chia-Lin Tseng1, Hanbo Chen1, James Stewart1, Angus Z. Lau1, Rachel Chan2, Liam S.P. Lawrence1, Mikki Campbell1, Sten Myrehaug1, Hany Soliman1, Zain A. Hussain1, Jay Detsky1, Pejman Jabeheidar Maralani1, Brian Keller1, Mark Ruschin1, Arjun Sahgal1
1University of Toronto, Toronto, ON
2Sunnybrook Research Institute, Toronto, ON

4:37-4:40
Question and Answer Period

4:40-5:15
Gold Medal and Gordon Richards Lecture
Introduction: Mary Gospodarowicz

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

Title
Padraig Warde

5:15-5:30
Question and Answer Period

5:35-6:30
Networking Event
Friday October 1, 2021

9:55-10:00
Welcome Day 2

10:00-10:35
CARO Lecture
Introduction: Corinne Doll

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

Advancing Equity in Radiation Oncology: Evidence-Based Approaches to Support Our Colleagues and Our Patients
Reshma Jagsi

10:35-10:50
Question and Answer Period

10:50-11:50
Resident Competition
Moderator: Reshma Jagsi

Objectives: By the end of this session, the participants will be able to:
• discuss the top ranked resident research projects in radiation oncology across Canada.
• explore toxicity profiles with novel radiation approaches.

10:50-10:57
41 HEARING LOSS AFTER RADIATION AND CHEMOTHERAPY FOR CENTRAL NERVOUS SYSTEM AND HEAD AND NECK TUMOURS IN CHILDREN
Zhihui Amy Liu, Vicky Papaioannou, Eric Bouffet, David Hodgson, Dana Keilty, Mohammad Khandwala, Ryan Yee, Normand Laperriere, Sameera Ahmed, Donald Mabbott, Sharon L. Cushing, Vijay Ramaswamy, Uri Tabori, Annie Huang, Ute Bartels, Derek S. Tsang
University of Toronto, Toronto, ON

10:57-11:00
Question and Answer Period

11:00-11:07
42 UNDERSTANDING END-OF-LIFE CANCER CARE IN CANADA: AN UPDATED 12-YEAR RETROSPECTIVE ANALYSIS OF THREE-PROVINCES’ ADMINISTRATIVE HEALTH CARE DATA
Amanda Khan1, Hsien Seow2, Rinku Sutraddhar3, Stuart Peacock4, Kelvin Chan3, Fred Burge5, Kim McGrail6, Beverley Lawson5, Adam Raymakers7, Lisa Barbera1
1University of Calgary, Calgary, AB
2McMaster University, Hamilton, ON
3University of Toronto, Toronto, ON
4Simon Fraser University, Burnaby, BC
5Dalhousie University, Halifax, NS
6University of British Columbia, Vancouver, BC
7British Columbia Cancer Agency, Vancouver, BC
11:07-11:10
Question and Answer Period

11:10-11:17
43 PREDICTORS OF TOXICITY IN A RANDOMIZED STUDY OF HYPOFRACTIONATED VERSUS CONVENTIONAL RADIOTHERAPY FOR GliOBlastoma: DOSIMETRIC ANALYSIS OF ORGANS AT RISK
Fan Yang, Deepak Dinakaran, Sunita Ghosh, Lindsay Rowe, Albert Murtha, John Amanie, Don Yee, Wilson Roa, Samir Patel, Amr A Heikal
University of Alberta, Edmonton, AB

11:17-11:20
Question and Answer Period

11:20-11:27
44 CERVICAL CANCER PATIENT REPORTED GASTROINTESTINAL OUTCOMES: INTENSITY/ VOLUMETRIC MODULATED VERSUS 3D CONFORMAL RADIATION THERAPY
Ryan Urban1, Justin Wong1, Peter Lim1, Susan Zhang1, Ingrid Spadinger1, Robert Olson2, Francois Bachand3, Clement Ho4, Anna Tinker1, Lovedeep Gondara1, Sarah Hamilton1
1University of British Columbia, Vancouver, BC
2University of British Columbia, Prince George, BC
3University of British Columbia, Kelowna, BC
4University of British Columbia, Surrey, BC

11:27-11:30
Question and Answer Period

11:30-11:37
45 PATIENT-DERIVED XENOGRAFT ENGRAFTMENT PREDICTS ORAL CAVITY CANCER OUTCOMES
Badr Id Said, Ailles Laurie, Christina Karamboulas, Jalna Meens, Shao Hui Huang, Wei Xu, Sareh Keshavarzi, Scott V. Bratman, B.C. John Cho, Meredith Giuliani, Ezra Hahn, John Kim, Brian O'Sullivan, Jolie Ringash, John Waldron, Anna Sprefico, John R. de Almeida, Douglas B. Chepeha, Jonathan C. Irish, David P. Goldstein, Andrew Hope, Ali Hosni
University of Toronto, Toronto, ON

11:37-11:40
Question and Answer Period

11:40-11:47
46 YOUR VOICE MATTERS DURING COVID-19: EVALUATION OF DIGITAL DIVIDES ACROSS A TERTIARY CANCER CENTRE
Amir H. Safavi1, Mike Lovas2, Damon Pfaff3, Zhihui Amy Liu1, Sheena Melwani2, Tran Truong2, Shayla Devonish2, Nazek Abdemutti2, Danielle L. Rodin1, Alejandro Berlin1
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON
3University Health Network, Toronto, ON

11:47-11:50
Question and Answer Period
11:50-12:30
Lunch
Yoga (12:00-12:20)
Visit the Virtual Exhibit Hall
Poster Walk

12:30-1:30
**Oral Session 6 – Stereotactic Radiosurgery**
Moderators:

Objectives: By the end of this session, the participants will be able to:
- understand the most recent advances in radiosurgery and its impact on treatment outcomes.
- discuss important factors related to quality of treatment planning and delivery.

12:30-12:37
47 EFFICACY AND TOXICITY OF STEREOTACTIC BODY RADIOTHERAPY FOR LOCALIZED PROSTATE CANCER: A FOURTEEN YEAR STUDY
Alan Katz1, Josephine Kang2
1University of Rochester, Rochester, NY
2Weill Cornell Medicine, New York, NY

12:37-12:40
Question and Answer Period

12:40-12:47
48 INTERMITTENT ANDROGEN DEPRIVATION THERAPY PLUS COMPREHENSIVE STEREOTACTIC RADIOTHERAPY FOR OLIGOMETASTATIC PROSTATE CANCER (CROP)
University of Toronto, Toronto, ON

12:47-12:50
Question and Answer Period

12:50-12:57
49 STEREOTACTIC RADIOTHERAPY BOOST FOR DE NOVO HEAD & NECK CANCERS: A SYSTEMATIC REVIEW
Michael Kim1, Nauman Malik2, Hanbo Chen3, Ian Poon3, Zain Husain3, Andrew Bayley3, Gabriel Boldt5, Antoine Eskander4, Alexander Louie3, Irene Karam3
1Dalhousie University, Halifax, NS
2University of Toronto, Toronto, ON
3Sunnybrook-Odette Cancer Centre, Toronto, ON
4Sunnybrook Health Sciences Centre, Toronto, ON
5London Health Sciences Centre, London, ON

12:57-1:00
Question and Answer Period
50 PROSPECTIVE NEUROCOGNITIVE FUNCTIONS OF PATIENTS TREATED WITH CONCURRENT NIVOLUMAB AND STEREOTACTIC BRAIN RADIOSURGERY FOR NSCLC AND RCC BRAIN METASTASES
Giuseppina Laura Masucci1, Olivier Boucher1, Marie Florescu1, Marc-Emile Plourde2, Cynthia Ménard1, Laurence Masson-Côté2, Valérie Panet-Raymond3, Normand Blais1, Bertrand Routy1, Mustapha Tehfé1, Scott Owen2, Michel Pavic2, David Roberge1, Philip Wong4
1Université de Montréal, Montréal, QC
2Université de Sherbrooke, Sherbrooke, QC
3McGill University, Montréal, QC
4University of Toronto, Toronto, ON

1:07-1:10
Question and Answer Period

51 A PROGNOSTIC MODEL FOR PATIENTS WITH OLIGOMETASTATIC DISEASE TREATED WITH STEREOTACTIC BODY RADIATION THERAPY
Hanbo Chen1, Eshetu Atenafu1, Darby Erler1, Ian Poon1, Roi Dagan2, Kristin Redmond3, Matthew Foote4, Serena Badellino5, Tithi Biswas6, Umberto Ricardi5, Arjun Sahgal1, Alexander Louie1
1University of Toronto, Toronto, ON
2University of Florida, Jacksonville, FL
3Johns Hopkins University, Baltimore, MD
4University of Queensland, Australia, AU
5University of Torino, IT
6Case Western Reserve University, Cleveland, OH

1:17-1:20
Question and Answer Period

52 IMPACT OF STEREOTACTIC BODY RADIOTHERAPY (SBRT) IN OLIGOPROGRESSIVE METASTATIC DISEASE
Sherif Ramadan, Kimmen Quan, Kara Schnarr, Rosalyn A Juergens, Sebastien J Hotte, Anil Kapoor, Brandon M Meyers, Anand Swaminath
McMaster University, Hamilton, ON

1:27-1:30
Question and Answer Period

Oral Session 7 – Breast and Gynecological Cancer
Moderators:

Objectives: By the end of this session, the participants will be able to:
• discuss advances in radiotherapy delivery for breast cancer
• explore the impact of advanced in radiotherapy on gynecological cancers outcomes
12:30-12:37
53 A RETROSPECTIVE STUDY OF LOW-RISK, NODE-POSITIVE PATIENTS ELIGIBLE FOR THE CANADIAN CANCER TRIAL GROUP MA.39 (TAILOR RT) RANDOMIZED TRIAL OF REGIONAL NODAL RADIOTHERAPY
Daegan Sit1, Nafisha Lalani1, Elisa Chan1, Eric Tran1, Caroline Speers2, Lovedeep Gondara2, Caroline Lohrisch1, Karen Gelmon1, Alan Nichol1
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC

12:37-12:40
Question and Answer Period

12:40-12:47
54 INTERNATIONAL EXPERT DELPHI CONSENSUS GUIDELINES FOR THE USE OF BOLUS IN POST MASTECTOMY RADIATION THERAPY
Hannah Dahn1, Liesbeth Boersma2, Dirk de Ruysscher2, Icro Meattini3, Birgitte Offersen4, Jean-Philippe Pignol1, Cynthia Aristei5, Dori Benjamin6, Nuran Bese7, Charlotte Coles8, Pierfrancesco Franco9, Alice Ho10, Sandra Hol11, Reshma Jagsi12, Anna Kirby12, Livia Marrazzo13, Gustavo Marta14, Meena Moran15, Alan Nichol16, Henrik Dahl Nissen17, Vratislav Strnad18, Yvonne Zissiadis19, Philip Poortmans20, Orit Kaidar-Person6
1Dalhousie University, Halifax, NS
2Maastricht University Medical Centre, Maastricht, NL
3Azienda Ospedaliero-Universitaria Careggi, Florence, IT
4Aarhus University Hospital, Aarhus, DK
5University of Perugia, Perugia, IT
6Sheba Medical Center, Ramat Gan, IL
7Research Institute of Senology Acibadem, Istanbul, TR
8University of Cambridge, Cambridge, UK
9University Hospital "Maggiore della Carità, Novara, IT
10Massachusetts General Hospital, Boston, MA
11Instituut Verbeeten, Tilburg, UK
12Royal Marsden NHS Foundation Trust, UK
13Careggi University Hospital, Florence, IT
14Hospital Sírio-Libanês, São Paulo, BR
15Yale School of Medicine, New Haven, CT
16British Columbia Cancer Agency, Vancouver, BC
17Vejle Hospital, Beriberbakken, DK
18University Hospital Erlangen, Erlangen, GER
19GenesisCare, Denmark WA, AU
20University of Antwerp, Antwerp, BE

12:47-12:50
Question and Answer Period
12:50-12:57
55 PREDICTORS OF LOCOREGIONAL RECURRENCE AND SURVIVAL OUTCOMES IN BREAST CANCER TREATED WITH MODERN NEOADJUVANT CHEMOTHERAPY: A CONTEMPORARY ANALYSIS OF PATIENTS TREATED IN BRITISH COLUMBIA
Sonja Murchison1, Alan Nichol2, Caroline Speers2, Lovedeep Gondara2, Nathalie Levasseur2, Caroline Lohrisch2, Pauline Truong1
1University of British Columbia, Victoria, BC
2University of British Columbia, Vancouver, BC

12:57-1:00
Question and Answer Period

1:00-1:07
56 COMPARATIVE COVERAGE OF THE SUBCUTANEOUS LAYER IN THE BREAST AND CHEST WALL USING MONTE CARLO CALCULATION AT VARIOUS ENERGIES
Dylan Narinesingh, Alan Nichol, Alanah Bergman, Tony Popescu
University of British Columbia, Vancouver, BC

1:07-1:10
Question and Answer Period

1:10-1:17
57 STEREOTACTIC PELVIC ADJUVANT RADIATION THERAPY IN CANCERS OF THE UTERUS (SPARTACUS): A MULTI-CENTRE PROSPECTIVE TRIAL EVALUATING ACUTE TOXICITIES AND PATIENT REPORTED OUTCOMES
Eric Leung1, Adam Gladwish1, Melanie Davidson1, Amandeep Taggar1, Elizabeth Barnes1, Elysia Donovan1, Lilian Gien1, Allan Covens1, Danielle Vicus1, Rachel Kupets1, Kathy Han1, Vikram Velker2, Lucas Mendez2, Helen MacKay1, Patrick Cheung1, Andrew Loblaw1, David D'Souza2
1University of Toronto, Toronto, ON
2Western University, London, ON

1:17-1:20
Question and Answer Period

1:20-1:27
58 USE OF ROBOTIC HYSTERECTOMY IN INTERMEDIATE-RISK ENDOMETRIAL CANCER
Jiheon Song1, Tien Le1, Laura Hopkins2, Michael Fung-Kee-Fung1, Krystine Lupe1, Marc Gaudet1, Choan E1, Rajiv Samant1
1University of Ottawa, Ottawa, ON
2University of Saskatchewan, Saskatoon, SK

1:27-1:30
Question and Answer Period
12:30-1:30
**Oral Session 8 – The Variety Pack**

**Objectives:** By the end of this session, the participants will be able to:
- discuss specific topics in radiation medicine including supportive care during radiotherapy, clinical outcomes and toxicity.

12:30-12:37
59 INCIDENCE AND RISK FACTORS FOR EUTHANASIA OR PHYSICIAN-ASSISTED SUICIDE IN ONCOLOGY PATIENTS: A SYSTEMATIC REVIEW

Wei Liu1, Luke Liu1, Alissa Liu2, Sang Jia3, Gabriel Boldt1, Ian Ball1, Melody Qu1, Tony Liu1  
1Western University, London, ON  
2University of Toronto, Toronto, ON  
3University of Manitoba, Winnipeg, MB

12:37-12:40
Question and Answer Period

12:40-12:47
60 RE-EVALUATING SURGERY AND RE-IRRADIATION FOR LOCALLY RECURRENT PEDIATRIC EPENDYOMA - A MULTI-INSTITUTIONAL STUDY

David Y. Mak1, Normand Lapierriere1, Vijay Ramaswamy1, Eric Bouffet1, Jeffrey C. Murray2, Rene Y. McNall-Knapp3, Kevin Bielamowicz4, Arnold C. Paulino5, Wafik Zaky5, Susan L. McGovern5, M. Fatih Okcu6, Uri Tabori7, Peter B. Dirks7, Michael D. Taylor7, Derek S. Tsang1, Abhishek Bavle8  
1University of Toronto, Toronto, ON  
2Cook Children's Medical Center, Fort Worth, TX  
3University of Oklahoma Health Sciences Center, Oklahoma City, OK  
4University of Arkansas for Medical Sciences, Little Rock, AR  
5MD Anderson Cancer Centre, Houston, TX  
6Texas Children's Cancer Center, Houston, TX  
7Hospital for Sick Children, Toronto, ON

12:47-12:50
Question and Answer Period

12:50-12:57
61 SURVIVAL OUTCOMES IN PRIMARY HEAD AND NECK ADULT SARCOMA: A SYSTEMATIC REVIEW AND META-ANALYSIS

Sondos Zayed, Cindy Lin, Anthony Nichols, John Yoo, Adrian Mendez, Danielle MacNeil, Kevin Fung, Jinka Sathya, Varaguar Venkatesan, Nancy Read, Pencilla Lang, Gabriel Boldt, Andrew Warner, David A. Palma  
Western University, London, ON

12:57-1:00
Question and Answer Period
1:00-1:07
62 OPTIMAL MANAGEMENT OF RADIATION PNEUMONITIS: PRELIMINARY FINDINGS OF AN INTERNATIONAL DELPHI CONSENSUS STUDY
Indu Voruganti1, Cicely Cunningham2, Lorraine McLeod2, Stephen Harrow2, Alexander Louie3
1University of Toronto, Toronto, ON
2NHS Greater Glasgow and Clyde, Glasgow, UK
3Sunnybrook-Odette Cancer Centre, Toronto, ON

1:07:10
Question and Answer Period

1:10-1:17
63 CARDIAC CORONARY RADIATION DOSE AND PATIENT RISK FACTORS FOR PREDICTING MAJOR ADVERSE CARDIAC EVENTS IN PATIENTS WITH LUNG CANCER
Michael Tjong1, Danielle S Bitterman2, Kristen Brantley2, Anju Nohria2, Udo Hoffmann2, Katelyn M Atkins3, Raymond H Mak1
1University of Toronto, Toronto, ON
2Harvard University, Boston, MA
3Cedars Sinai, Los Angeles, CA

1:17-1:20
Question and Answer Period

1:20-1:27
64 PREDICTORS OF HIGHER RADIATION DOSE IN RECTAL CANCER PATIENTS TREATED WITH NEOADJUVANT CHEMORADIATION
Fan Yang, Jordan Hill, Aswin Abraham, Sunita Ghosh, Tanner Steed, Clay Kurtz, Kurian Joseph Nawaid Usmani, Jihyun Yun, Brad Warkentin, JoAnn Thai, Tirath Nijjar, Diane Severin, Keith Tankel, Alysa Fairchild
University of Alberta, Edmonton, AB

1:27-1:30
Question and Answer Period

1:30-2:00
Break/Poster Walk

2:00-3:00
Fellow Competition
Moderators:

Objectives: By the end of this session, the participants will be able to:
• discuss the top scored Canadian Radiation Oncology Fellow research projects.
65 A NOVEL COMPOSITE BIOMARKER PANEL FOR DETECTION OF EARLY STAGE NON-SMALL CELL LUNG CANCER
Aswin Abraham, Eric Bedard, Anil Abraham Joy, Sunita Ghosh, Xiaoyu Wang, Andrew Lim, Dongyu Shao, Wilson Roa
University of Alberta, Edmonton, AB

66 LOCAL CONTROL IN TUMOUR-TARGETED DOSE ESCALATION FOR LOCALIZED PROSTATE CANCER: A REPORT ON THE TARGET STUDY
Jerusha Padayachee1, Noelia Sanmamed1, Jenny Lee1, Zhihui Liu1, Alejandro Berlin1, Bernadeth Lao1, Alexandra Rink1, Tim Craig1, Andrew Bayley1, Charles Catton1, Aravindhan Sundaramurthy2, Warren Foltz1, Andrew McPartlin3, Sangeet Ghai1, Eshetu Atenafu1, Mary Gospodarowicz1, Padraig Warde1, Joelle Helou1, Srinivas Raman11, Cynthia Ménard4, Peter Chung1
1University of Toronto, Toronto, ON
2University of Edinburgh Cancer Research Centre, Edinburgh, UK
3University of Manchester, Manchester, UK
4université de montréal, Montreal, QC

67 QUALITY OF LIFE OUTCOMES AFTER SALVAGE BRACHYTHERAPY FOR LOCALLY RECURRENT PROSTATE CANCER
Inmaculada Navarro1, Lisa Joseph1, Zhihui (Amy) Liu1, Alejandro Berlin1, Joelle Helou1, Srinivas Raman1, Robert Weersink1, Alexandra Rink1, Bernadeth Lao1, Cynthia Ménard2, Peter Chung1
1University of Toronto, Toronto, ON
2Centre Hospitalier de l'Université de Montréal, Montreal, QC

68 A PROSPECTIVE STUDY OF MR-GUIDED FOCAL SALVAGE HIGH DOSE-RATE BRACHYTHERAPY FOR RADIORECURRENT PROSTATE CANCER: UPDATED RESULTS OF 30 PATIENTS
Mark T. Corkum1, Gerard Morton1, Andrew Loblaw1, Chia-Lin Tseng1, Jure Murgic2, Ananth Ravi1, Melanie Davidson1, Matt Wronski1, Masoom Haider3, Hans T. Chung1
1Sunnybrook-Odette Cancer Centre, Toronto, ON
2University Hospital Center Sestre Milosrdnice, Zagreb, HR
3University of Toronto, Toronto, ON
69 DOSIMETRIC COMPARISON IN MALIGNANT GLIOMA PATIENTS CLINICALLY TREATED ON HYBRID MAGNETIC RESONANCE IMAGING (MRI)-LINAC (MRL) VERSUS CONVENTIONAL LINAC
Michael H. Wang, Anthony Kim, Mark Ruschin, Hendrick Tan Hany Soliman, Sten Myrehaug, Jay Detsky, Zain Husain, Eshetu Atenafu, Brian Keller, Arjun Sahgal, Chia-Lin Tseng
University of Toronto, Toronto, ON

2:50-2:57
70 AFTER ASCENDE-RT: OUTCOMES OF ANDROGEN DEPRIVATION, EXTERNAL BEAM RADIATION AND LDR BRACHYTHERAPY BOOST FOR HIGH-TIER INTERMEDIATE AND HIGH RISK PROSTATE CANCER TREATED AT BC CANCER KELOWNA
Jack Zheng, Francois Bachand, Ross Halperin, David Kim, David Petrik, Juanita Crook
University of British Columbia, Kelowna, BC

2:57-3:00
Question and Answer Period

3:00-3:15
Awards
Jennifer Croke/Sarah Hamilton

Closing
Meredith Giuliani

3:20-4:30
Annual General Meeting
Secretariat Central
Posters 71-176

71 BREAST DEFORMATIONS MEASURED WITH CONE BEAM COMPUTED TOMOGRAPHY DURING ADJUVANT RADIOTHERAPY FOR BREAST CANCER
Lisa Perron-Gagnon, Louis Archambault, Nicolas Varfalvy, Ophelie Piron, Valérie Théberge
CHU de Québec-Université Laval, Québec, QC

72 APOPTOSIS AND SENESCENCE IN LOCALIZED PROSTATE CANCER TISSUES TREATED WITH HDR-BT BOOST WITH RADIOTHERAPY (EBRT) AND ADT
Imen Chebra, Damien Carignan, Martine Périgny, Andre-guy Martin, William Foster, Éric Vigneault
Universite de Laval, Québec, QC

73 CRANIAL RADIOTHERAPY AS SALVAGE TREATMENT IN RELAPSED PRIMARY CNS LYMPHOMAS: A SINGLE-CENTRE RETROSPECTIVE ANALYSIS
Matthew Volpini, Jiheon Song, Rajiv Samant, David MacDonald, Vimoj Nair
University of Ottawa, Ottawa, ON

74 NOVEL USE OF OPTICAL SCANNER AND 3D PRINTING TECHNOLOGY IN NASAL SKIN TUMOURS. A LOOK INTO CLINICAL OUTCOMES- A CASE SERIES
Jui Chih Cheng, Ahmet Leylek, James Beck, David Sasaki, Arbind Dubey
University of Manitoba, Winnipeg, MB

75 A SYSTEMATIC REVIEW OF INTRAFACTION PATIENT MOTION DURING LINEAR ACCELERATOR-BASED SPINAL RADIATION THERAPY
Adam Mutsaers, Stephanie Gulstene, Timothy K. Nguyen
Western University, London, ON

76 MANAGEMENT DELAYS IN LOW-DOSE-RATE BRACHYTHERAPY ARE ASSOCIATED WITH AN INCREASED INCIDENCE OF RECURRENCE AND METASTASES IN INTERMEDIATE-RISK PROSTATIC CARCINOMA
Rutvij Khanolkar, Harvery Quon, Kundan Thind, Michael Sia, Michael Roumeliotis, Siraj Husain, Philip McGeachy, Tyler Meyer, Kevin Martell
University of Calgary, Calgary, AB

77 MARGIN PLANNING IN PERMANENT BREAST SEED IMPLANT BRACHYTHERAPY: DOES INCORPORATING SURGICAL MARGINS MAKE A DIFFERENCE?
Claire Zhang, Michelle Hilts, Deidre Batchelor, Juanita Crook
British Columbia Cancer Agency, Kelowna, BC

78 ARE THE RISK GROUPS USED FOR EXTERNAL BEAM TREATMENT OF PROSTATE CANCER APPROPRIATE FOR LDR BRACHYTHERAPY?
Juanita Crook1, Howard Thames2, Chad Tang2, Pierre Blanchard2, Jeremiah Sanders2, Jay Ciezki3, Mira Keyes4, WJ Morris4, Gregory Merrick5, Charles Catton6, Hamid Raziee4, Richard Stock7, Francis J Sullivan8, Mitch Anscher2, Jeremy Millar9, Steven Frank2
1University of British Columbia, Kelowna, BC
2University of Texas, Houston, TX
3Case Western Reserve University, Cleveland, OH
4University of British Columbia, Vancouver, BC
5University of West Virginia, Wheeling, WV
6University of Toronto, Toronto, ON
7Mount Sinai Medical School, New York, NY
8University of Galway, Galway, IE
9University of Melbourne, Melbourne, AU
79 A SYSTEMATIC REVIEW OF INTRALUMINAL HIGH DOSE RATE BRACHYTHERAPY IN THE MANAGEMENT OF MALIGNANT BILIARY TRACT OBSTRUCTION AND CHOLANGIOCARCINOMA
Amandeep Taggar1, Paveen Mann2, Michael Folkert3, Shahrad Aliakbari1, Sten Myrehaug1, Laura Dawson1
1University of Toronto, ON
2Sunnybrook Health Sciences Centre, Toronto, ON
3University of Texas Southwestern Medical Center, Dallas, TX

80 DEVELOPMENT AND DESIGN OF CUSTOM 3D PRINTED CYLINDRICAL TEMPLATES FOR INTERSTITIAL GYNECOLOGICAL BRACHYTHERAPY
Michael Kudla-Hooper, Deidre Batchelor, Jocelyn Moore, Juanita Crook, Francois Bachand
University of British Columbia, Kelowna, BC

81 EFFECTS OF ANDROGEN DEPRIVATION THERAPY (ADT) COMBINED WITH RADIOTHERAPY (EBRT) AND HDR-BT BOOST ON DNA REPAIR MARKERS IN PROSTATE CARCINOMA
Imen Chebra, Damien Carignan, Martine Périgny, Andre-guy Martin, William Foster, Éric Vigneault
Université de Laval, Laval, QC

82 A POPULATION-BASED STUDY OF OUTCOMES IN ADJUVANT RADIOTHERAPY FOR STAGE II ENDOMETRIAL CARCINOMA
Nataliya Moldovan, Pascal Lambert, Aldrich Ong, Alon Altman
University of Manitoba, Winnipeg, MB

83 IMMERSIVE VIRTUAL REALITY PROSTATE BRACHYTHERAPY TRAINING
Jack Zheng, Francois Bachand Juanita Crook
University of British Columbia, Kelowna, BC

84 HYPOFRACTIONATED RADIOTHERAPY FOR BREAST CANCER: FINDINGS FROM AN INTERNATIONAL ESTRO-GIRO SURVEY
Melinda Mushonga, Jessica Weiss, Amy Zhihui Liu, Danielle Rodin
University of Toronto, Toronto, ON

85 THE USE OF BOLUS IN POSTMASTECTOMY RADIATION THERAPY FOR BREAST CANCER: A SYSTEMATIC REVIEW
Hannah Dahn1, Liesbeth Boersma2, Dirk de Ruysscher3, Icro Meattini4, Birgitte Offersen5, Jean-Philippe Pignol1, Yazid Belkacemi6, Dori Benjamin7, Nuran Bese8, Charlotte Coles9, Pierfrancesco Franco10, Alice Ho11, Sandra Hol12, Reshma Jagsi13, Anna Kirby13, Livia Marrazzo14, Gustavo Marta15, Meena Moran16, Alan Nichol17, Henrik Dahl Nissen18, Vratislav Strnad19, Yvonne Zissiadis20, Cynthia Ariste21, Philip Poortman22, Orit Kaidar-Person7
1Dalhousie University, Halifax, NS
2Maastricht University Medical Centre, Maastricht, NL
3Maastricht University, Maastricht, NL
4Azienda Ospedaliero-Universitaria Careggi, Florence, IT
5Aarhus University Hospital, Aarhus, DK
6University of Paris-Est (UPEC), Creteil, FR
7Sheba medical Center, Ramat Gan, IL
8Research Institute of Senology Acibadem, Istanbul, TR
9University of Cambridge, Cambridge, UK
10University Hospital "Maggiore della Carità, Novara, IT
11Massachusetts General Hospital, Boston, MA
12Instituut Verbeeten, Tilburg, NL
13Royal Marsden NHS Foundation Trust, Sutton, UK
14 Careggi University Hospital, Florence, IT
15 Hospital Sírio-Libanês, São Paulo, BR
16 Yale School of Medicine, New Haven, CT
17 British Columbia Cancer Agency, Vancouver, BC
18 Vejle Hospital, Beriderbakken, DK
19 University Hospital Erlangen, Erlangen, DE
20 GenesisCare, Denmark WA, AU
21 Perugia, IT
22 University of Antwerp, Antwerp, DE

86 PREDICTIVE FACTORS OF SURVIVAL AFTER NEOADJUVANT RADIOTHERAPY AND CHEMOTHERAPY IN HIGH-RISK BREAST CANCER
Christiane Matuschek1, Wilfried Budach1, Balint Tamaskovics1, Johannes Fischer1, Edwin Boelke1, Stefanie Corradini2, Kai Kammers3, Carolin Nestle Kramling1, Tanja Fehm1, Sylvia Wolland1, Vanessa Speer1, Jan Haussmann1
1 Heinrich Heine University, Dusseldorf, DE
2 University Hospital LMU, Munich
3 Johns Hopkins University, Baltimore, Maryland

87 IMPACT OF THE COVID-19 PANDEMIC ON RADIOTHERAPY PATTERNS OF PRACTICE FOR CURATIVE INTENT BREAST CANCER PATIENTS
Donna Liao, Kawalpreet Singh, Joelle Helou, Anthony Fyles, Ezra Hahn, Kathy Han, Nagmeh Isfahanian, Danielle Rodin, Aisling Barry, Fei-Fei Liu, Grace Lee, Amy Liu, Sriniv Raman, Alejandro Berlin, Michael Milosevic, Anne Koch, Jennifer Croke
University of Toronto, Toronto, ON

88 RADIOTHERAPY FOR PATIENTS WITH METASTATIC BREAST CANCER TREATED WITH CYCLIN-DEPENDENT KINASE 4/6 INHIBITORS: A PROVINCIAL MULTI-INSTITUTIONAL REVIEW OF SAFETY AND TOXICITY
Abdulla Al-Rashdan, Carla Amaro, Sasha Lupichuk, Michael Roumeliotis, Sarah Quirk, Lisa Barbera, Jeffrey Cao
University of Calgary, Calgary, AB

89 IS POST-OPERATIVE RADIOTHERAPY NEEDED IN THE MANAGEMENT OF ADULT CRANIOPHARYNGIOMAS?
Julia Khriguian, Marwan Tolba, Farzin Khosrow-Khavar, Sarah Kordlouie, Denis Sirhan, George Shenouda, Bassam Abdulkarim, Marie-Christine Guiot, Luis Souhami, Valerie Panet-Raymond
McGill University, Montreal, QC

90 UNDERSTANDING THE POTENTIAL IMPROVEMENTS IN NEUROCOGNITION AFTER RADIATION TREATMENT OF BRAIN TUMOURS WITH PROTON THERAPY
Mariana Petruccelli, Amy Parent, Michael Holwell, Normand Laperriere, Barbara-Ann Millar, David Shultz, Zhihui Amy Liu, Victor Malkov, Kim Edelstein, Derek Tsang
University of Toronto, Toronto, ON
91 MULTIPLE TUMOUR BOARD REVIEW OF PATIENTS REFERRED FOR CNS IRRADIATION
Chalina Huynh, Pavanpreet Soos, Alysa Fairchild
University of Alberta, Edmonton, AB

92 ANAL CANAL CANCER TREATMENT OUTCOMES FROM A SINGLE INSTITUTION IN EIGHTEEN YEARS
Nitin Rai, Ming Pan
Western University, Windsor, ON

93 A SINGLE INSTITUTION RETROSPECTIVE STUDY OF PALLIATIVE RADIOTHERAPY FOR Pancreatic CANCER
Suzanne Comino1, Randa Kamel2, Kristopher Dennis2
1The Ottawa Hospital, Ottawa, ON
2University of Ottawa, Ottawa, ON

94 A CONTOURING GUIDELINE FOR THE FULL ABDOMINOPELVIC BOWEL BAG ON TREATMENT PLANNING- AND CONE BEAM CT IMAGES; FOUNDATIONAL WORK FOR ASSESSMENTS OF OBSERVER VARIABILITY, DAILY MOTION AND AUTOMATED CONTOURING.
Elizabeth Orton1, Elsayed Ali2, Keren Mayorov3, Kristopher Dennis2
1The Ottawa Hospital, Ottawa, ON
2University of Ottawa, Ottawa, ON
3Carleton University, Ottawa, ON

95 SALVAGE EXTERNAL BEAM RADIOTHERAPY AFTER HIFU FAILURE IN LOCALIZED PROSTATE CANCER: A SINGLE INSTITUTION EXPERIENCE
Vanessa Di Lalla, Maurice Anidjar, Boris Bahoric, Victor McPherson, Cristiano Ferrario, Stephan Probst, Tamim Niazi, Sara Elakshar
McGill University, Montréal, QC

96 ASSOCIATION OF BASELINE HEALTH-RELATED QUALITY OF LIFE METRICS WITH OUTCOME IN LOCALIZED PROSTATE CANCER
Soumyajit Roy1, Scott Morgan2, Daniel Spratt3, Scott Grimes4, Robert Mac Rae5, Julia Malone5, Shawn Malone5
1Rush University Medical Center, Chicago, IL
2University of Ottawa, Ottawa, ON
3University of Michigan, Ann Arbor, MI
4The Ottawa Hospital, Ottawa, ON
5University of Ottawa, Ottawa, ON

97 4-YEAR PSA RESPONSE RATE AS A PREDICTIVE MEASURE IN INTERMEDIATE RISK PROSTATE CANCER TREATED WITH ABLATIVE THERAPIES: THE SPRAT ANALYSIS
Rachel Glicksman1, Amar U Kishan2, Alan J Katz3, Constantine A Mantz4, Sean P Collins5, Donald B Fuller6, Michael L Steinberg2, David Shabsovich2, Liying Zhang7, Andrew Loblaw1
1University of Toronto, Toronto, ON
2University of California Los Angeles, Los Angeles, CA
3St. Francis Hospital, Roslyn, New York, NY
421st Century Oncology, Fort Myers, FL
5Georgetown University, Washington, DC
6Cyberknife Centres of San Diego Inc, San Diego, CA
7Sunnybrook-Odette Cancer Centre, Toronto, ON
98 IMPACT OF PD-L1 EXPRESSION ON ONCOLOGICAL OUTCOMES FOR PATIENTS TREATED WITH TRIMODALITY THERAPY FOR MUSCLE INVASIVE BLADDER CANCER
Gautier Marcq, Gertruda Evaristo, Ronald Kool, Surashri Shinde-Jadhav, Rodrigo Skowronsni, José João Mansure, Fabio Cury, Luis Souhami, Fadi Brimo, Wassim Kassouf
McGill University, Montreal, QC

99 DENTITION RECEIVING >50GY IN THE TREATMENT OF HEAD AND NECK CANCER WITH VOLUMETRIC MODULATED ARC THERAPY
Nathan Lee, Eric Berthelet
University of British Columbia, Vancouver, BC

100 THE ROLE OF FDG-PET IN STAGING AND TREATMENT FOR STAGE III NSCLC IN ONTARIO BETWEEN 2009-2017
Craig Beers, Greg Pond, Jim Wright, Theodoros Tsakiridis, Gordon Okawara, Anand Swaminath
McMaster University, Hamilton, ON

101 A SINGLE INSTITUTION RETROSPECTIVE STUDY OF PELVIC INSUFFICIENCY FRACTURES FOLLOWING CURATIVE-INTENT PELVIC INTENSITY-MODULATED RADIATION THERAPY FOR GYNECOLOGIC, GASTROINTESTINAL AND GENITOURINARY CANCERS
Said Al Saifi, Marc Gaudet, Scott Morgan, Alain Haddad, Krystine Lupe, Randa Kamel, Kristopher Dennis
University of Ottawa, Ottawa, ON

102 TREATMENT PLANNING DURING THE PANDEMIC - DID FLEXIBLE WORK ARRANGEMENTS MAKE US MORE EFFICIENT?
Marc Gaudet, Jason Pantarotto, Rob MacRae, Miller Macpherson, Julie Renaud
University of Ottawa, Ottawa, ON

103 PATIENT SATISFACTION WITH TELECONSULTATION DURING THE COVID-19 PANDEMIC
Marc-Émile Plourde, Emilie Pelchat
Université de Sherbrooke, Sherbrooke, QC

104 FINANCIAL TOXICITY IS ASSOCIATED WITH HOSPITALIZATION DURING CONCURRENT RADIATION AND CHEMOTHERAPY
Julie Jiang, Jeremy Eichler, William Bodner, Jana Fox, Madhur Garg, Rafi Kabarriti, Shalom Kalnicki, Keyur Mehta, Amanda Rivera, Justin Tang, Johnny Yap, Nitin Ohri, Jonathan Klein
Albert Einstein College of Medicine, New York, NY

105 CHARACTERISTICS ASSESSMENT OF ONLINE YOUTUBE VIDEOS ON RADIOTHERAPY FOR LUNG CANCER
Zhang Hao (Jim) Li1, Meredith Giuliani2, Paris-Ann Ingledew1
1University of British Columbia, Vancouver, BC
2University of Toronto, Toronto, ON

106 A QUALITATIVE STUDY OF FACTORS TO CONSIDER IN THE INTEGRATION OF CAREGIVER-REPORTED OUTCOMES INTO PATIENT-CENTERED MODELS OF CARE
Michael McKenzie1, Scott Beck1, Kelsey Lynch1, Maria Torrejon1, Jonathan Avery1, Sally Thorne1, Antony Porcino2, Leah Lambert1, Mary de Vera1, Fuchsia Howard1
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Vancouver, BC
107 A SINGLE INSTITUTION RETROSPECTIVE STUDY OF PALLIATIVE RADIOTHERAPY FOR BONE METASTASES; COMPARING THE FIRST 6 MONTHS OF THE 2020 COVID-19 PANDEMIC WITH THE SAME CALENDAR PERIOD DURING 2019
Kelly Linden1, Julie Renaud1, Randa Kamel2, Marc Gaudet2, Kristopher Dennis2
1The Ottawa Hospital, Ottawa, ON
2University of Ottawa, Ottawa, ON

108 EFFICIENCY OF RADIOTHERAPY DELIVERY FOR PATIENTS WITH BREAST CANCER IN A DEDICATED MULTIDISCIPLINARY PALLIATION RADIATION ONCOLOGY CLINIC
Jordan Hill, Mohannad Alhumaid, Sunita Ghosh, Alexander Le, Sharon Watanabe, Alysa Fairchild
University of Alberta, Edmonton, AB

109 EVALUATION OF PALLIATIVE RADIATION QUALITY ASSURANCE PROGRAM AT A SINGLE CANADIAN CENTRE WITH ASSESSMENT OF ASSOCIATED COSTS AND COMPARISON OF TWO DIFFERENT REVIEW PROCESSES
Stephanie Gulstene, Adam Mutsaers, Melissa O'Neil, Andrew Warner, Robert Dinniwell, George Rodrigues
Western University, London, ON

110 PALLIATIVE RADIOTHERAPY DELIVERY BY A DEDICATED MULTIDISCIPLINARY SUPPORTIVE CARE TEAM: FACILITATING EARLY INTEGRATION OF PALLIATIVE CARE FOR PATIENTS WITH BREAST CANCER
Alysa Fairchild, Jordan Hill, Mohannad Alhumaid, Sunita Ghosh, Alexander Le, Sharon Watanabe
University of Alberta, Edmonton, AB

111 COMPREHENSIVE ASSESSMENT OF CARE NEEDS DURING PALLIATIVE RADIOTHERAPY CONSULTATION OPTIMIZES PROVISION OF SUPPORTIVE CARE FOR PATIENTS WITH BREAST CANCER
Mohannad Alhumaid, Jordan Hill, Sunita Ghosh, Sharon Watanabe, Alysa Fairchild
University of Alberta, Edmonton, AB

112 METASTATIC MELANOMA REFRACTORY TO IMMUNE-CHECKPOINT INHIBITORS: CAN RADIOTHERAPY IMPROVE THE IMMUNOTHERAPY RESPONSE?
Mohannad Alhumaid, Deepak Dinakaran, Michael Smylie, John Walker, Kurian Joseph
University of Alberta, Edmonton, AB

113 RE-EVALUATING THE TOXICITY OF RADIOTHERAPY IN PATIENTS WITH COLLAGEN VASCULAR DISEASE: A META-ANALYSIS OF PROPENSITY SCORE STUDIES
Wei Liu1, Brandon Liu2, Aaron Leung1, Jane Park1, Gabriel Boldt1, David Palma1, Michael Lock1
1Western University, London, ON
2McMaster University, Hamilton, ON

114 QUALITY ASSURANCE OF RADIOTHERAPY DURING THE COVID-19 PANDEMIC: IMPACT ON PEER REVIEW IN 14 REGIONAL CANCER CENTRES ACROSS ONTARIO
Gordon Locke1, Julie Renaud2, Jason Pantarotto3, Robert MacRae3, Shawn Malone3
1University of Toronto, Toronto, ON
2The Ottawa Hospital, Ottawa, ON
3University of Ottawa, Ottawa, ON
115 THE ADOPTION OF AN ELECTRONIC PATIENT REPORTED OUTCOME SOFTWARE DURING THE COVID-19 PANDEMIC - MAINTAINING COMMUNICATION WITH OUR PATIENTS
Jennifer Moyer1, Rashmi Koul2, Marshall Pitz2
1CancerCare Manitoba, Winnipeg, MB
2University of Manitoba, Winnipeg, MB

116 ADVANCING RADIATION ONCOLOGY PRACTICE IN ATLANTIC CANADA (AROPAC)
Murali Rajaraman1, Robin Urquhart1, Rebecca KS Wong2, Nicole Harnett2, Carol-Anne Davis1, Clare Summers1, Jean-Philippe Pignol1
1Dalhousie University, Halifax, NS
2University of Toronto, Toronto, ON

117 IMPACT OF THE COVID-19 PANDEMIC ON POSTGRADUATE TRAINING IN RADIATION ONCOLOGY
Meredith Giuliani1, Diana Samoil2, Ankit Agarwal3, Jennifer Croke1, Eleni Giannopoulos2, Daniel W. Golden4, Ariel E. Hirsch5, Rachel Jimenez6, Nauman H. Malik1, Naa Kwarley Quartey2, Janet Papadakos2, Che Hsuan David Wu7, Paris-Ann Ingledew8
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON
3UNC School of Medicine, Chapel Hill, North Carolina
4University of Chicago, Chicago, IL
5Boston University School of Medicine, Boston, MA
6Harvard University, Boston, MA
7University of Calgary, Calgary, AB
8University of British Columbia, Vancouver, BC

118 STRATEGIC TRAINING IN TRANSDISCIPLINARY RADIATION SCIENCE FOR THE 21ST CENTURY (STARS21): 5-YEAR PROSPECTIVE EVALUATION OF AN INNOVATIVE CURRICULUM IN RADIATION RESEARCH
Parasvi Patel, Shahbano Mustafa, Zhihui Liu, Shane Harding, Marianne Koritzinsky, Anne Koch
University of Toronto, Toronto, ON

119 WHEN ALL LEARNERS WENT ONLINE: ENHANCING AN ONCOLOGY EDUCATION WEBSITE WITH THE ADDITION OF ASSESSMENT TO INFORM EVALUATION
Christopher Galbraith1, Connor Bohlken1, Paris Ingledew2
1University of British Columbia, Prince George, BC
2University of British Columbia, Vancouver, BC

120 CREATION OF A NATIONAL IN-TRAINING EXAMINATION IN RADIATION ONCOLOGY - IMPACT EVALUATION
Sarah Kordlouie1, David Bowes2, Barbara Strang3, Jennifer Croke4, Meredith Giuliani4, Paris-Ann Ingledew5, Joanne Alfieri1
1McGill University, Montreal, QC
2Dalhousie University, Halifax, NS
3McMaster University, Hamilton, ON
4University of Toronto, Toronto, ON
5University of British Columbia, Vancouver, BC
121 FEEDBACK DELIVERY IN AN ACADEMIC CANCER CENTRE: REFLECTIONS FROM AN R2C2-BASED MICROLEARNING COURSE
Amir H. Safavi1, Janet Papadakos2, Tina Papadakos2, Naa Kwarley Quarte2, Karen Lawrie2, Eden Klein2, Sarah Storer2, Jennifer Croke1, Barbara-Ann Millar1, Raymond Jang1, Andrea Bezjak1, Meredith E. Giuliani1
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON

122 REMOTE CONTOURING AND VIRTUAL REVIEW DURING THE COVID-19 PANDEMIC (RECOVR- COVID19): RESULTS OF A QUALITY IMPROVEMENT INITIATIVE FOR VIRTUAL RESIDENT TRAINING IN RADIATION ONCOLOGY
Andrew Arifin, Rohann Correa, Christopher Goodman, Joanna Laba, Robert Dinniwell, David Palma, Timothy Nguyen
Western University, London, ON

123 DO SUSTAINABLE PALLIATIVE SINGLE FRACTION RADIOTHERAPY PRACTICES PROLIFERATE OR PERISH 2 YEARS AFTER A KNOWLEDGE TRANSLATION CAMPAIGN?
Shaheer Shahhat1, Julian Kim1, Nikesh Hanumanthappa1, Youn Tae Chung1, James Beck1, Rashmi Koul1, Bashir Bashir1, Andrew Cooke1, Arbind Dubey1, James Butler1, Maged Nashed1, William Hunter2, Shrinivas Rathod1, Aldrich Ong1, Kim Tran3
1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB
3Canadian Partnership Against Cancer, Toronto, ON

124 EXPLORING "WHY IT WORKED" FOR A DISTANT-LEARNING CLINICAL RESEARCH MENTORSHIP PROGRAM (CRMP) FOR RADIATION ONCOLOGY RESIDENTS IN AFRICA - A QUALITATIVE STUDY
Rebecca KS Wong1, Shahbano Mustafo2, Sarah Tosoni2, Verna Vanderpuyne3, Joel Yarney3, Ntokozo Ndlovu4, Nwamaka Lasebikan5, Zahra Kassam1
1University of Toronto, Toronto, ON
2Princess Margaret Cancer Centre, Toronto, ON
3Korle-Bu Teaching Hospital, Accra, GH
4University of Zimbabwe College of Health Sciences, Harare, KE
5University of Nigeria Teaching Hospital, Enugu, NI

125 A PRIORITIZATION FRAMEWORK FOR THE ANALYSIS OF NEAR MISSES IN RADIATION ONCOLOGY
Brian Liszewski
University of Toronto, Toronto, ON

126 SPREAD OF MISINFORMATION? QUALITY OF COVID-19 RESOURCES FOR CANCER PATIENTS
Ruijia Jin, Paris-Ann Ingledew
University of British Columbia, Vancouver, BC

127 USING PROFESSIONAL VIDEO INTERPRETATION TO ENHANCE PATIENT EDUCATION FOR RADIATION THERAPY PATIENTS WITH LIMITED ENGLISH PROFICIENCY
Carmen Chan1, Ruby Bola1, Mikki Campbell2, Darby Erler2, Aaron Cumal1
1Sunnybrook Health Sciences Centre, Toronto, ON
2University of Toronto, Toronto, ON
128 AN INTERACTIVE SMARTPHONE APPLICATION FOR MEDICAL STUDENT ORIENTATION AND LEARNING IN RADIATION ONCOLOGY: "THE RAD ONC HANDBOOK"
Sonia Skamene, Benson Wan, Joanne Alfieri, Ian J. Gerard
McGill University, Montreal, QC

129 NAVIGATING RADIATION THERAPY DURING COVID-19 USING YOUTUBE AS A SOURCE OF INFORMATION
Inhwa Kim1, Jim Li2, Meredith Giuliani3, Paris Inglede1w2
1Dalhousie University, Halifax, NS
2University of British Columbia, Vancouver, BC
3University of Toronto, Toronto, ON

130 RADIATION ONCOLOGIST CONSULTATIONS PRIOR TO RADICAL PROSTATECTOMY IN ONTARIO: DISPARITIES AND IMPLICATIONS FOR HEALTH HUMAN RESOURCE PLANNING
Mark Corkum1, Andrew Loblaw1, Gerard Morton1, Alexander Louie1, Rachel Glicksman1, Joseph Chin2, Girish Kulkarni3, Robert Dinniwell2, Barbara Fisher2, Refik Saskin4, Jason Pantarotto5, Andrew Warner2, George Rodrigues2
1Sunnybrook-Odette Cancer Centre, Toronto, ON
2London Health Sciences Centre, London, ON
3University Health Network, Toronto, ON
4Institute for Clinical Evaluative Sciences, Toronto, ON
5The Ottawa Hospital, Ottawa, ON

131 PREDICTING ONCOLOGIC SURVIVAL OUTCOMES USING MACHINE LEARNING AND LARGE-SCALE REGISTRY DATA - THE BC CANCER REGISTRY EXPERIENCE
Rachel Zhao1, Melodie Kim1, Arshdeep Marwaha1, Terry Stubbs1, Prableen Sandhu1, Dylan Narinesingh2, Iulian Badragan2, Ryan Proulx3, Andra Krauze2
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Surrey, BC
3Safe Software, Surrey, BC

132 CHANGES IN THE INCIDENCE OF CERVICAL SQUAMOUS CARCINOMA/CARCINOMA IN SITU IN ONTARIO FOLLOWING THE APPROVAL OF A HUMAN PAPILLOMAVIRUS VACCINE
Hanbo Chen, Eric Leung, Lilian Gien, Katarzyna Jerzak, Elizabeth Barnes, Elysia Donovan, Amandeep Taggar, Allan Covens, Ray Osborne, Helen Mackay, Danielle Vicus, Rachel Kupets
University of Toronto, Toronto, ON

133 SURVIVAL OUTCOMES IN METASTATIC EWING SARCOMA TREATED WITH WHOLE LUNG RADIATION
Caroline Holloway1, Alexa Dang2, Xiaolan Feng1, Jeremy Hamm2, Pauline Truong1
1University of British Columbia, Victoria, BC
2University of British Columbia, Vancouver, BC

134 ILLUMINATING THE GAP: DEFINING CHILDCARE NEEDS FOR CANCER PATIENTS AND THEIR FAMILIES
Mackenzie MacDonald1, Katherine Preston1, Meredith Giuliani2, Bonnie Leung1, Barb Melosky1, Christine Simmons1, Sarah Hamilton1, Anna Tinker1, Paris-Ann Inglede1w1
1University of British Columbia, Vancouver, BC
2University of Toronto, Toronto, ON
PATIENT REPORTED OUTCOMES IN BREAST CANCER: DEVELOPMENT AND VALIDATION OF A NOVEL AND CLINICALLY USEFUL QUESTIONNAIRE
Kerensa Medhurst1, Fuchsia Howard2, Theodora Koulis3, Maryam Dosani4, Susan Dahinten2, Paul Willinsky2, Robert Olson1
1University of British Columbia, Prince George, BC
2University of British Columbia, Vancouver, BC
3University of British Columbia, Kelowna, BC
4University of British Columbia, Victoria, BC

PREVALENCE OF PALLIATIVE RADIOTHERAPY ABSTRACTS PRESENTED AT ANNUAL SCIENTIFIC MEETINGS OF THE CANADIAN ASSOCIATION OF RADIATION ONCOLOGY: 2009-2020
Saveen Sidhoo1, Jyote Boora1, Sunita Ghosh2, Alysa Fairchild1
1University of Alberta, Edmonton, AB
2Cross Cancer Institute, Edmonton, AB

AN EXPLORATORY ANALYSIS OF STUDY OUTCOMES AND FOUNDATIONAL EVIDENCE FOR 5 YEARS OF PHASE III TRIALS IN RADIATION ONCOLOGY
Adam Mutsaers, Claire Browne, Gabriel Boldt, Lucas Mendez
Western University, London, ON

MEDICAL ASSISTANCE IN DYING IN ONCOLOGY PATIENTS: A CANADIAN ACADEMIC HOSPITAL EXPERIENCE
Tony Liu1, Wei Liu2, Aaron Leung2, Luke Liu1, Sue Miller2, Kimia Honarmand2, Ian Ball2, Melody Qu2
1Western University, London, ON
2London Health Sciences Centre, London, ON

ADOPTION AND IMPLEMENTATION OF SINGLE FRACTION LUNG STEREOTACTIC ABLATIVE RADIOTHERAPY IN A MULTI-CENTRE PROVINCIAL CANCER PROGRAM DURING THE COVID-19 PANDEMIC
Benjamin Mou1, Derek Hyde1, Cynthia Araujo1, Leigh Bartha1, Alanah Bergman2, Mitchell Liu2
1British Columbia Cancer Agency, Kelowna, BC
2British Columbia Cancer Agency, Vancouver, BC

BARRIERS TO ACCESS PALLIATIVE RADIOTHERAPY FOR PROSTATE CANCER IN ONTARIO
Alborz Jooya, Danial Qureshi2, Jennifer Leigh, Colleen Webber, William Phillips, Peter Tanuseputro, Michael Ong, Jean-Marc Bourque
University of Ottawa, Ottawa, ON

RADIOTHERAPY DECISION MAKING IN A PANDEMIC: ALBERTA’S EXPERIENCE DURING THE FIRST WAVE OF COVID-19
Sarah Quirk1, Jonatan Snir1, Ben Burke2, Winter Spence3, Lisa Barbera1
1 University of Calgary, Calgary, AB
2University of Alberta, Edmonton, AB
3Alberta Health Services, Edmonton, AB

VIRTUAL CARE UPTAKE IN RADIATION MEDICINE: LESSONS LEARNED FROM THE CV19 PANDEMIC
Julie Renaud, Marc Gaudet, Jason Pantarotto, Robert MacRae
University of Ottawa, Ottawa, ON
VIRTUAL HEALTH IN CANCER CARE: RESULTS FROM A SEMI-STRUCTURED INTERVIEW-SURVEY OF ONCOLOGY HEALTH CARE PROVIDERS
Dan Le1, Paris-Anne Ingledew2, Tamara Shenkier2, Amanda Brain2
1University of British Columbia, Surrey, BC
2University of British Columbia, Vancouver, BC

RADIOTherapy FOR MANAGEMENT OF SIALORRHEA
Eman Eldebawy, George Shenouda, Carolyn Freeman
McGill University, Montreal, QC

ACCESS TO RADIOTHERAPY IN GHANA: A GEOSPATIAL ANALYSIS
Alfredo Polo1, Eduardo Zubizarreta1, Charles Akoto-Aidoo2, Michael Milosevic3, Danielle Rodin3, Aba Anoa Scott3
1International Atomic Energy Agency, Vienna, AUT
2N/A, Accra, GH
3University of Toronto, Toronto, ON

COVID-19 PANDEMIC IMPACT ON RADIATION TREATMENT DELIVERY METRICS
Julie Renaud, Jason Pantarotto, Robert MacRae, Marc Gaudet, Miller MacPherson
University of Ottawa, Ottawa, ON

TELEMEDICINE IN RADIATION-ONCOLOGY, IS IT PERTINENT AND IS IT THERE TO STAY?
Guy Paré1, Jean-Paul Bahary2, David Roberge2
1HEC Montréal, Montréal, QC
2Université de Montréal, Montréal, QC

PROGNOSTIC FACTORS INFLUENCING ONCOLOGIC OUTCOMES IN MERKEL CELL CARCINOMA: A RETROSPECTIVE POPULATION-BASED COHORT STUDY
Megan McDonald1, Arbind Dubey2, Frances-Claire Eichorn1, Alok Pathak1
1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB

DO VIRTUAL RO CONSULTS EXPEDITE TREATMENT? ANOTHER TALE FROM THE CV19 PANDEMIC
Julie Renaud, Jason Pantarotto, Melissa Diffey, Marc Gaudet, Robert MacRae
University of Ottawa, Ottawa, ON

SATISFACTION AMONG CANCER PATIENTS UNDERGOING RADIOTHERAPY DURING THE COVID-19 PANDEMIC
Vanessa Di Lalla, Haley Patrick, Nicolas Siriani-Ayoub, John Kildea, Tarek Hijal, Joanne Alfieri
McGill University, Montreal, QC

PROSTATE SBRT BOOST RADIOTHERAPY (PBS TRIAL): A RANDOMIZED PHASE II TRIAL OF SBRT VERSUS CONVENTIONALLY-FRACTIONATED RADIOTHERAPY BOOST FOLLOWING PELVIC RADIOTHERAPY IN HIGH-RISK PROSTATE CANCER
Aruz Mesci1, Naghmeh Isfahanian1, Georgia Douvi1, Mohammad Gouran-Savadkoohi1, Ian Dayes1, Himanshu Lukka1, Kimmen Quan1, Kara Schnarr1, Mira Goldberg1, Abhirami Hallock2, Tom Chow1, Kevin Diamond1, Raphael Jakubovic2, Lahane Thabane1, Theodoros Tsakiridis1
1McMaster University, Hamilton, ON
2McMaster University, St Catherine’s, ON
152 ORGAN AT RISK DOSE CONSTRAINTS IN STEREOTACTIC ABLATIVE RADIOTHERAPY: A SYSTEMATIC REVIEW OF ACTIVE CLINICAL TRIALS
Serenna G. Gerhard1, David A. Palma1, Andrew J. Arifin1, Alexander V. Louie2, George J. Li3, Faiez Al-Shafa4, Patrick Cheung2, George Rodrigues1, Carol Bassim5, Mark T. Corkum2
1London Health Sciences Centre, London, ON
2Sunnybrook-Odette Cancer Centre, Toronto, ON
3University of Toronto, Toronto, ON
4King Fahad Medical City, Abha, SB
5McMaster University, Hamilton, ON

153 A DOSIMETRIC COMPARISON BETWEEN TRANSLATIONAL CORRECTION WITH CBCT-GUIDANCE AND ADAPTATION USING MR-LINAC FOR PROSTATE ULTRA-HYPOFRACTIONATED RADIOTHERAPY
Vickie Kong, Jennifer Dang, Winnie Li, Andrew Bayley, Alejandro Berlin, Joelle Helou, Inmaculada Navarro, Jerusha Padayachee, Srinivas Raman, Charles Catton, Padraig Warde, Jeff Winter, Tony Tadic, Peter Chung
University of Toronto, Toronto, ON

154 ACUTE TOXICITY OF ULTRAHYPOFRACTIONATION COMPARED TO MODERATE HYPOFRACTIONATION IN PROSTATE CANCER TREATMENT - A RANDOMIZED TRIAL
Winkle Kwan1, Samar Hejazi2, Gaurav Bahl3, David Kim4, Allison Ye5, Abraham Alexander6
1British Columbia Cancer Agency, Surrey, BC
2Fraser Health Authority, Surrey, BC
3British Columbia Cancer Agency, Abbotsford, BC
4British Columbia Cancer Agency, Kelowna, BC
5British Columbia Cancer Agency, Prince George, BC
6British Columbia Cancer Agency, Victoria, BC

155 OUTCOMES OF STEREOTACTIC ABLATIVE RADIATION THERAPY FOR LIVER METASTASES FROM COLORECTAL CARCINOMA
Ronan McDermott1, Emma Dunne1, Yizhou Zhao1, Mitchell Liu1, Roy Ma1, Devin Schellenberg2
1British Columbia Cancer Agency, Vancouver, BC
2British Columbia Cancer Agency, Surrey, BC

156 STEREOTACTIC BODY RADIOTHERAPY (SBRT) FOR THE PALLIATION OF UNIRRADIATED MUCOSAL HEAD AND NECK TUMOURS
Ahmed Abugharib1, Irene Karam1, Zain Husain1, Lee Chin2, Andrew Bayley1, Ian Poon1
1Sunnybrook-Odette Cancer Centre, Toronto, ON
2Sunnybrook Health Sciences Centre, Toronto, ON

157 PREOPERATIVE DURAL CONTACT CORRELATES WITH THE RISK OF NODULAR LEPTOMENINGEAL FAILURE FOLLOWING ADJUVANT STEREOTACTIC RADIOSURGERY
University of Toronto, Toronto, ON

158 T-DM1 INCREASES THE RISK OF SRS-INDUCED RADIATION NECROSIS IN HER2+ BREAST CANCER
Badr Id Said, Hanbo Chen, Katarzyna Jerzak, Sten Myrehaug, Chia-Lin Tseng, Jay Detsky, Zain Husain, Arjun Sahgal, Hany Soliman
University of Toronto, Toronto, ON
159 PROSTATE SBRT WITH REAL-TIME TUMOUR TRACKING - REAL-WORLD EXPERIENCE
Bryan Janzen1, Rashmi Kou1, Amitava Chowdhury2, Ryan Rivest2, Sankar Venataraman2, Eric VanUytven2, Bashir Bashir2, Julian Kim2, Aldrich Ong2, Arbind Dubey2
1University of Manitoba, Winnipeg, MB
2CancerCare Manitoba, Winnipeg, MB

160 EARLY STAGE LUNG CANCER STEREOTACTIC BODY RADIATION THERAPY OUTCOMES IN A SINGLE INSTITUTION
Nathan Doupnik1, Khalid Hirmiz1, Ming Pan1, Abdulkadir Hussein2
1Western University, LaSalle, ON
2University of Windsor, Windsor, ON

161 SURGICAL RESECTION(S) PLUS STEREOTACTIC RADIOSURGERY (SRS) VERSUS SRS ALONE FOR LARGE BRAIN METASTASES: A COMPARATIVE STUDY
Barbara-Ann Millar, Normand Laperriere, Tatiana Conrad, Aristotelis Kalyvas, Gelareh Zadeh, Mark Bernstein, Paul Kongkham, Jessica Weiss, David Shultz, Enrique Gutierrez
University of Toronto, Toronto, ON

162 STEREOTACTIC ABLATIVE RADIOTHERAPY VERSUS CONVENTIONAL FRACTIONATED RADIOTHERAPY FOR EARLY-STAGE NON-SMALL CELL LUNG CANCER: A SYSTEMATIC REVIEW AND META-ANALYSIS OF RANDOMIZED TRIALS
Adam Mutsaers1, Tina Zhang2, David Palma1, George Rodrigues1, Melody Qu1
1Western University, London, ON
2University of British Columbia, Vancouver, BC

163 EFFECTIVENESS OF SURFACE-GUIDANCE IN DETECTING INTRA-FRACTION MOTION FOR FRAMELESS, LINEAR ACCELERATOR-BASED STEREOTACTIC RADIOSURGERY AND FRACTIONATED STEREOTACTIC RADIOTHERAPY WHEN EVALUATED USING POST-TREATMENT CBCT
Justina Wong1, Natalie Snyder1, Valeriia Granillo1, Heather Warkentin2, Ben Burke2
1University of Alberta, Edmonton, AB
2Alberta Health Services, Edmonton, AB

164 DYNAMIC CONTRAST-ENHANCED CT AND MRI TO EVALUATE RESPONSE IN NEUROENDOCRINE LIVER METASTASES TREATED WITH EVEROLIMUS AND RADIATION
University of Toronto, Toronto, ON

165 EVALUATION OF IMMOBILIZATION TECHNIQUES IN STEREOTACTIC BODY RADIOTHERAPY FOR EARLY STAGE LUNG CANCERS AND LUNG METASTASES
Shannah Murland, Pamela Paterson
Alberta Health Services, Edmonton, AB

166 SABR FOR THE TREATMENT OF OLIGOMETASTATIC CANCER - A HEALTH TECHNOLOGY ASSESSMENT
Brit Cooper-Jones, Jill Sutherland
Canadian Agency for Drugs and Technologies in Health, Ottawa, ON
A REVIEW OF STEREOTACTIC ABLATIVE BODY RADIOTHERAPY OUTCOMES FOR EARLY STAGE NON-SMALL CELL LUNG CANCER AT THE NOVA SCOTIA CANCER CENTRE TO DETERMINE THE ROLE OF [18F] PET METRICS ON THE PREDICTION OF LOCAL FAILURE
Stefan Allen, Ian MacDonald, Steven Allen, Steve Burrell, Lucy Ward, Clare Summers, David Bowes, Helmut Hollenhorst, Liam Mulroy
Dalhousie University, Halifax, NS

UTILIZATION TRENDS OF STEREOTACTIC RADIOSURGERY AND WHOLE BRAIN RADIOTHERAPY IN THE MANAGEMENT OF BRAIN METASTASES AT A REGIONAL CANCER CENTRE
Laura Burgess, Julie Renaud, Shawn Malone
University of Ottawa, Ottawa, ON

SURVIVAL OUTCOMES IN PRIMARY ANGIOSARCOMA OF THE HEAD AND NECK: A SYSTEMATIC REVIEW AND META-ANALYSIS
Sondos Zayed, Cindy Lin, Anthony Nichols, John Yoo, Adrian Mendez, Danielle MacNeil, Kevin Fung, Jinka Sathy, Varaguar Venkatesan, Nancy Read, Pencilla Lang, Gabriel Boldt, Andrew Warner, David A. Palma
Western University, London, ON

REAL-WORLD OUTCOMES OF CHEMORADIATION AND CONSOLIDATIVE DURVALUMAB IN UNRESECTABLE STAGE III NON-SMALL-CELL LUNG CANCER - A SYSTEMATIC REVIEW
Hsin-pei Hu, Cindy Walker-Dilks, Anand Swaminath
McMaster University, Hamilton, ON

RADIATION THERAPY MANAGEMENT FOR METASTATIC DISEASE TO THE BRAIN IN NSCLC PATIENTS - SURVIVAL OUTCOMES OF THE BC CANCER REGISTRY 1996-2016
Terry Stubbs1, Kimberly DeVries2, Arthur Cheung3, Alan Nichol1, Clement Ho3, Andra Krauze3, Ryan Proulx3
1University of British Columbia, Delta, BC
2British Columbia Cancer Agency, Vancouver, BC
3British Columbia Cancer Agency, Surrey, BC

FIVE YEAR SURVIVAL, TOXICITY, AND PATIENT REPORTED QUALITY OF LIFE AFTER INTENSITY MODULATED RADIATION THERAPY-BASED CONCORRENT CHEMORADIOThERAPY FOR LOCALLY ADVANCED ANAL CANCER
Mustafa Al Balushi1, Larissa J. Vos1, Anjali Menon1, Aswin Abraham1, Heather Warkentin1, Sunita Ghosh1, Kim Paulson1, Nawaiid Usmani1, Keith Tankel1, Diane Severin1, Tirath Nijjar1, Dan Schiller1, Clarence Wong1, Karen Mulder1, Corinne Doll2, Kurian Joseph1
1University of Alberta, Edmonton, AB
2University of Calgary, Calgary, AB

Arshdeep Marwaha1, Melodie Kim1, Dylan Narinesingh2, Rachel Zhao1, Rohit Malyala1, Ryan Proulx2, Jasbir Jaswal1, Anand Karvat2, Carson Leong2, Andra Krauze2
1University of British Columbia, Vancouver, BC
2British Columbia Cancer Agency, Surrey, BC
174 RETROSPECTIVE CHART REVIEW OF STAGE 3 NON-SMALL CELL LUNG CANCER CASES IN THE WINDSOR REGIONAL CANCER CENTRE FROM 2008 TO 2015
Alexandra Zygowska, Khalid Hirmiz, Abdulkadir Hussein
Western University, Windsor, ON

175 LONG-TERM SURVIVAL OF PATIENTS WITH RECURRENT RECTAL CANCER IS POSSIBLE
Junliang Liu, Shahida Ahmed
University of Manitoba, Winnipeg, MB

176 FATIGUE AS A COMPLICATING FACTOR IN THE RECOVERY OF BREAST CANCER SURVIVORS TREATED AT AN ONCOLOGY CLINIC IN SOUTH WEST NIGERIA
Ntekim Atara, Abbas Abdus Salam, Adenipekun Adenipekun, Sharif Folorunso
University of Ibadan, Ibadan, NI
Education Sessions

Tuesday October 5, 2021
12:30-1:30 ET

Radiation Oncology Patient Education in the COVID-19 Era: Evolving Opportunities and Challenges
Paris-Ann Ingledew, Meredith Giuliani, Laura Nimmon, Carolyn Canfield

Objectives: By the end of this session, the participants will be able to:
- Describe best practices for patient education for radiation oncology patients.
- Understand how models such as complex adaptive system approaches can help to illuminate gaps in education and patient care.
- Describe ways to empower patients and health care professionals to collaboratively interact with digital technologies for the purposes of patient education.

Wednesday October 6, 2021
12:30-1:30 ET

A Practical Approach to Head and Neck Stereotactic Ablative Radiotherapy
Houda Bahig, Jack Phan, Ian Poon

Objectives: By the end of this session, the participants will be able to:
- Review current literature on head and neck SABR (re-irradiation and previously untreated).
- Describe head and neck SABR planning technique, including the particular aspects of immobilization, contouring, prescription, dose constraints and image guidance.
- Share practical clinical experience related to patients’ selection, management of toxicities and expected outcomes.
- Recognize the current knowledge gaps and become familiar with current Canadian and International clinical trials addressing these gaps.

Thursday October 7, 2021
12:30-1:30 ET

Navigating the Land of Re-tweets & Twitter Trolls: How to use Social Media to Improve Health Professional Learning & Knowledge Translation
Julianna Sienna, Ian Pereira

Objectives: By the end of this session, the participants will be able to:
- Understand how social media engagement improves radiation oncology education, innovation, and clinical care.
- Recognize the benefits and risks of social media for health professionals.
- Develop competence to improve online communication (including scientific communication with peers and the public).
- Develop competence to manage unprofessional behaviours online (including personal risk, bad bots, & cyberbullying).
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