Tuesday September 28, 2021

12:30-1:30
Women in Radiation Medicine
Moderators: Jennifer Croke/Sarah Hamilton
Panel: Carolyn Freeman, Joanne Alfieri, Marie-Andrée Fortin, Julia Khriguian

Objectives: By the end of this session, the participants will be able to:
• reflect on a long career, professional contributions, opportunities and challenges
• identify areas where radiation oncologists can/need to make contributions, whether male or female.
• identify challenges specific to women in our field and strategies to address them.

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

Immunotherapy and Radiotherapy
Moderators: Andrew Bang, Matthew Chan

Objectives: By the end of this session, the participants will be able to:
- provide a basic overview of cancer immunology, immunotherapy, and interactions with radiotherapy.
- review safety data of radiotherapy and immunotherapy, and describe practical considerations such as timing.
- discuss current and future clinical applications of radiotherapy and immunotherapy.

10:10-10:25
Radiotherapy + immunotherapy at basic science level: overcoming resistance in the tumor microenvironment to improve tumor control with radiotherapy, CAR T cells and radiation, regulatory T cells and radiotherapy
Adrian Sacher

10:25-10:40
Safety in contexts of palliative/high dose EBRT/SBRT/SRS, management of toxicities
Luke Pike

10:40-10:55
PACIFIC, SBRT plus immunotherapy
Willemijn Theelen

10:55-11:10
Question and Answer Period

11:10-11:20
Break
11:20-12:40
**Plenary Abstracts**
Moderators: Fabio Cury, Eve-Lyn Marchand

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 Matthews7, Ante Mestrovic5, Derek Hyde4, Vicky Huang4, Chad Lund3, Howard Pai5, Boris Valev5, Shilo Lefresne2, Scott Tyldesley2
1University of British Columbia, Prince George, BC
2British Columbia Cancer Agency, Vancouver, BC
3British Columbia Cancer Agency, Surrey, BC
4British Columbia Cancer Agency Kelowna, BC
5British Columbia Cancer Agency, Victoria, BC
6British Columbia Cancer Agency, Abbotsford, BC
7British Columbia Cancer Agency, Prince George, BC

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
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

Concurrent Poster Walk
12:45-1:15

Palliative Care/Symptom Control
Lead: Jonathan Livergant

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 Kame1, 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
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

Concurrent Poster Walk
12:45-1:15

Stereotactic Radiosurgery
Lead: David Palma

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

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

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

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

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
Jean Roy Lecture
Introduction/Moderator: Eric Vigneault

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.

Question and Answer Period

Concurrent 1 - Brachytherapy Oral Session
Moderators: Rachel Glicksman, Aman Taggar

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.

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 Koro1, Andrew Loblaw1
1University of Toronto, Toronto, ON
2Sunnybrook-Odette Cancer Centre, Toronto, ON
3Sunnybrook Health Sciences Centre, Toronto, ON

Question and Answer Period

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

Question and Answer Period
2:30-2:37
7 OCULAR BRACHYTHERAPY FOR INTRA-OCULAR MELANOMA: 5 YEAR LARGE COHORT OUTCOMES IN THE PROVINCE OF ALBERTA
Mohannad Alhumaid, Deepak Dinakaran, Matthew Larocque, Albert Murtha, Ezekiel Weis
University of Alberta, Edmonton, AB

2:37-2:40
Question and Answer Period

2:40-2:47
8 DOSIMETRIC PREDICTORS OF TOXICITY AND QUALITY OF LIFE FOLLOWING SINGLE FRACTION HIGH DOSE-RATE PROSTATE BRACHYTHERAPY
Sunnybrook-Odette Cancer Centre, Toronto, ON

2:47-2:50
Question and Answer Period

2:50-2:57
9 RESULTS OF PATIENTS TREATED WITH PROSTATE BRACHYTHERAPY FOR EARLY-ONSET (≤55 YEARS) PROSTATE CANCER
Cédric Charrois-Durand, Daniel Taussky, Guila Delouya, Daniel Liberman
Centre Hospitalier de l'Université de Montréal, Montréal, QC

2:57-3:00
Question and Answer Period

3:00-3:07
10 HIGH DOSE RATE BRACHYTHERAPY IN THE MANAGEMENT OF ANAL CANCER: A SYSTEMATIC REVIEW
Zakariya Ali2, Amandeep Taggar1, Paveen Mann3, Eden Solomon4, Kelvin Chan1
1Sunnybrook-Odette Cancer Centre, Toronto, ON
2Royal College of Surgeons of Ireland, Dublin, IE
3Sunnybrook Health Sciences Centre, Toronto, ON
4 University of Waterloo, Waterloo, ON

3:07-3:10
Question and Answer Period

2:10-3:10
Concurrent 1 - Oral Session 1 – Education
Moderators: Vanessa DiLalla, Paris-Ann Ingledew

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.
THE CANADIAN ASSOCIATION OF RADIATION ONCOLOGY 2020 RADIATION ONCOLOGIST BURNOUT AND WORK ENGAGEMENT SURVEY

Mira Keyes1, Michael Leiter2, Paris Ann Ingledew1, 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

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

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

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
Concurrent 1 - Oral Session 2 – Applied Technology and Physics/Basic and Translational Biology
Moderators: Alanah Bergman, Oliver Holmes

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

3:40-4:40
Concurrent 2 - Oral Session 3 – Population Science and Health Services
Moderators: Fabio Moraes, Shaun Loewen

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.
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 Senth8, 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

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 Nichol1, 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

EXTREME WEEKLY LOCOREGIONAL HYPOFRACTIONATED RADIATION IN ELDERLY WOMEN WITH NON-METASTATIC BREAST CANCER

Fadoua Rais
McGill University, Montreal, QC

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
4:20-4:27
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 Mittmann2, 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
Concurrent 2 - Oral Session 4 – Gastrointestinal and Genitourinary Cancer
Moderators: Gerard Morton, Michael Peacock

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, Kurian 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, Tirth 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 Vesperini1, 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
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

3:40-4:40
Concurrent 2 - Oral Session 5 - Head and Neck Cancer
Moderators: Astrid Bifalk-Kelly, Pencilla Lang

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 Jabehdar 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

Patients, Populations and Health Systems
Padraig Warde

Objectives: By the end of this session, the participants will be able to:
Appreciate the importance of clinical research at:
• an individual patient level
• a population level and
• a health system level

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
Meredith Giuliani

10:00-10:35
**CARO Lecture**
Introduction/Moderator: Corinne Doll

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

Objectives: By the end of this session, the participants will be able to:
- articulate deontological and teleological arguments for the importance of equity, diversity, and inclusion within the medical profession.
- understand the evidence regarding causal mechanisms of inequity.
- recognize the types of interventions that can target root causes of inequity.

10:35-10:50
Question and Answer Period

10:50-11:50
**Resident Competition**
Moderator: Reshma Jagsi, David Bowes

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 Lapierre, 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 Sutradhar3, 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
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 GLOBLASTOMA: DOSIMETRIC ANALYSIS OF ORGANS AT RISK
Fan Yang, Deepak Dinakaran, Amr A Heikal, Sunita Ghosh, John Amanie, Albert Murtha, Wilson Roa, Lindsay Rowe, Samir Patel
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 Spreafico, 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, Nazea Abdelsmutti2, 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

11:55-12:25
**Concurrent Poster Walk**

Education
Lead: Joanne Alfieri

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 Quartey2, 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
11:55-12:25
Concurrent Poster Walk

Population Science – COVID
Lead: Corinne Doll

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

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 Ingledew1
1University of British Columbia, Vancouver, BC
2University of Toronto, Toronto, ON

135 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

Saveen Sidhoo1, Jyote Boora1, Sunita Ghosh2, Alysa Fairchild1
1University of Alberta, Edmonton, AB
2Cross Cancer Institute, Edmonton, AB

12:30-1:30
Concurrent 3 - Oral Session 6 – Stereotactic Radiosurgery
Moderators: Houda Bahig, Alexander Louie

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.
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

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

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

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
Concurrent 3 - Oral Session 7 – Breast and Gynecological Cancer

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
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 Gondar2, 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
Concurrent 3 - Oral Session 8 – The Variety Pack
Moderators: Teri Stuckless

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
60 RE-EVALUATING SURGERY AND RE-IRRADIATION FOR LOCALLY RECURRENT PEDIATRIC EPENDYMOMA - A MULTI-INSTITUTIONAL STUDY
David Y. Mak1, Normand Laperriere1, Vijay Ramaswamy1, Eric Bouffet1, Jeffrey C. Murray2, Rene Y. McFall-Knapp3, Kevin Bielamowicz4, Arnold C. Paulino5, Wafik Zaky5, Susan L. McGovern5, M. Fatih Okcu6, Uri Tabori,7 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

1:07-1:10
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
64 PREDICTORS OF HIGHER RADIATION DOSE IN RECTAL CANCER PATIENTS TREATED WITH NEOADJUVANT CHEMORADIATION
University of Alberta, Edmonton, AB

1:27-1:30
Question and Answer Period

1:30-2:00
Break

2:00-3:00
Fellow Competition
Moderators: Jolie Ringash, David Wu

Objectives: By the end of this session, the participants will be able to:
• discuss the top scored Canadian Radiation Oncology Fellow research projects.

2:00-2:07
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

2:07-2:10
Question and Answer Period

2:10-2:17
66 LOCAL CONTROL IN TUMOUR-TARGTED 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

2:17-2:20
Question and Answer Period
2:20-2:27
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

2:27-2:30
Question and Answer Period

2:30-2:37
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

2:37-2:40
Question and Answer Period

2:40-2:47
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

2:47-2:50
Question and Answer Period

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
**Education Sessions – Please note these dates!**

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).
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
Université 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 INTRACTION 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 RECURRENT AND METASTASES IN INTERMEDIATE-RISK PROSTATIC CARCINOMA
Rutvij Khanolkar, Harvey 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 Batchelar, 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
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6Harvard University, Boston, MA
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8University of British Columbia, Vancouver, BC

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