




INQUIRE
INSPIRE
INNOVATE

CANADA'S PREMIER
**RADIATION THERAPY
CONFERENCE**

15th Annual Conference

 May 31st – June 1st, 2019

 Toronto Reference Library

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#RTi3Conference

INTRODUCTION



INTRO

WELCOME

Welcome to the 15th annual RTi3 Radiation Therapy Conference, hosted by the Department of Radiation Oncology, University of Toronto!

Over May 31st to June 1st, 2019, we hope attendees will learn, present and network in what has become Canada's largest meeting dedicated to the science and practice of radiation therapy.

This year's proffered program presents over 67 abstracts in oral and poster sessions. In keeping with the momentum from recent years, we have a truly pan-Canadian representation of Radiation Therapists and we are excited to also welcome international colleagues from the United Kingdom and Belgium. The diverse topics range from motion management innovations, novel operations and models of care, patient experience and outcomes, quality improvement and safety, planning and treatment outcomes, patient education and the evolving role of the Radiation Therapist; all which speaks to the growth of evidence across all of the facets of radiation therapy practice. All of these abstracts will be published in the *Journal of Medical Imaging and Radiation Sciences* online supplement to disseminate to the wider community of Medical Radiation Technologists.

Continuing into 2019 is a dedicated abstract stream for undergraduate medical radiation sciences student projects. These will be highlighted through designated posters and the top rated abstracts presented orally in a junior investigator competition. New this year, a student "speed dating" session where student delegates are encouraged to attend and ask questions to an expert panel on topics ranging from how to get hired, how to survive your 1st year of practice, how to get published and so much more!

Highlights in the program include four keynote addresses by distinguished and emerging leaders in radiotherapy. First, our *Innovate* speaker Ms. Sophie Foxcroft BSc, MRT(T), MHSc, CHE will present her work on 'Planning the Way Forward'; creating plans that are designed to anticipate and be responsive to changing clinical practice within radiation therapy. As the *Inspire* speaker, Mr. Charles Washington MBA, RT(T), ARRT, FASRT will share his journey to transform Radiation Oncology practice through the development of performance goals. Our *Interprofessional* speaker Paul Boutros PhD, MBA will teach us of the emerging biomarkers within prostate cancer. Finally, Peter Bridge PhD as the *Inquire* speaker will reinforce the practice of inquiry within radiotherapy in the age of automation and artificial intelligence. One workshop will be offered at this year's conference with the intention to strengthen practical skills of Radiation Therapists' use of patient reported outcomes to manage patient symptoms. Lastly, we are thrilled to partner with the CAMRT to continue hosting the National Innovation Snapshot, a well-received session that showcases the latest practice-changing initiatives from both local and national centres in a rapid presentation format.

Be sure to join us Friday evening at our welcome reception and social event, a great opportunity to reconnect with old colleagues and meet new ones over food, drinks and posters! Finally, we would like to thank our organizing committee for their commitment and effort to organize a memorable event.

Welcome and enjoy your time in Toronto!



Laura D'Alimonte, MHSc, MRT(T)
2019 RTi3 Co-Chair



Michael Velec, PhD, MRT(T)
2019 RTi3 Co-Chair

CONFERENCE GOALS & OBJECTIVES

Program Goals

- To disseminate the latest evidence in radiation therapy to inform and stimulate clinical practice.
- To provide learning opportunities for practitioners to update their clinical knowledge.
- To facilitate networking and communication and the development of professional communities of practice.

Learning Objectives

- To gain new knowledge and understanding on: the innovative application of radiotherapy technology, factors influencing clinical outcomes, quality improvement in radiotherapy, and patient and supportive care.
- To inform practice knowledge and clinical skills through lectures and workshops on current and new practice models and strategies.
- To discuss challenges and opportunities related to advanced practice initiatives, career specialization and development, and education and research endeavours.

CONTINUING EDUCATION CREDITS

A certificate of attendance will be provided via email within two weeks following the conference. Attendees will be required to complete an online evaluation of the conference prior to accessing their certificate.

College of Medical Radiation Technologists of Ontario (CMRTO)

The program schedule permits a maximum of 5.7 h on Friday and 4.2 h on Saturday for attendance of education activities. Technologists can use this towards their annual learning requirements as evidence for their CMRTO Quality Assurance Portfolio.

Medical Dosimetrist Certification Board (MDCB)

This program has been granted a total of 15.5 MDCB continuing education credits for the full conference. The schedule permits a maximum attendance for 6 credits on Friday and 4.5 on Saturday. The MDCB is a Recognized Continuing Education Evaluation Mechanism (RCEEM) for the American Registry of Radiologic Technologists (ARRT) and Canadian Association of Medical Radiation Technologists (CAMRT) and therefore is authorized to approve Category A and A+ credits. Technologists can use the assigned credits towards their continuing education requirements.

2019 PROGRAM COMMITTEE

Co-Chairs

Laura D'Alimonte Odette Cancer Centre
Dept. of Radiation Oncology, University of Toronto

Michael Velec Princess Margaret Cancer Centre
Dept. of Radiation Oncology, University of Toronto

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Bayani Macute Dept. of Radiation Oncology, University of Toronto

Merrylee McGuffin Odette Cancer Centre
Dept. of Radiation Oncology, University of Toronto

Gulaid Mohamoud Stronach Regional Cancer Centre

Raj Ravi Carlo Fidani Regional Cancer Centre

Tara Rosewall Princess Margaret Cancer Centre
Dept. of Radiation Oncology, University of Toronto

Ankur Sharma Dept. of Radiation Oncology, University of Toronto

Nathaniel So Princess Margaret Cancer Centre

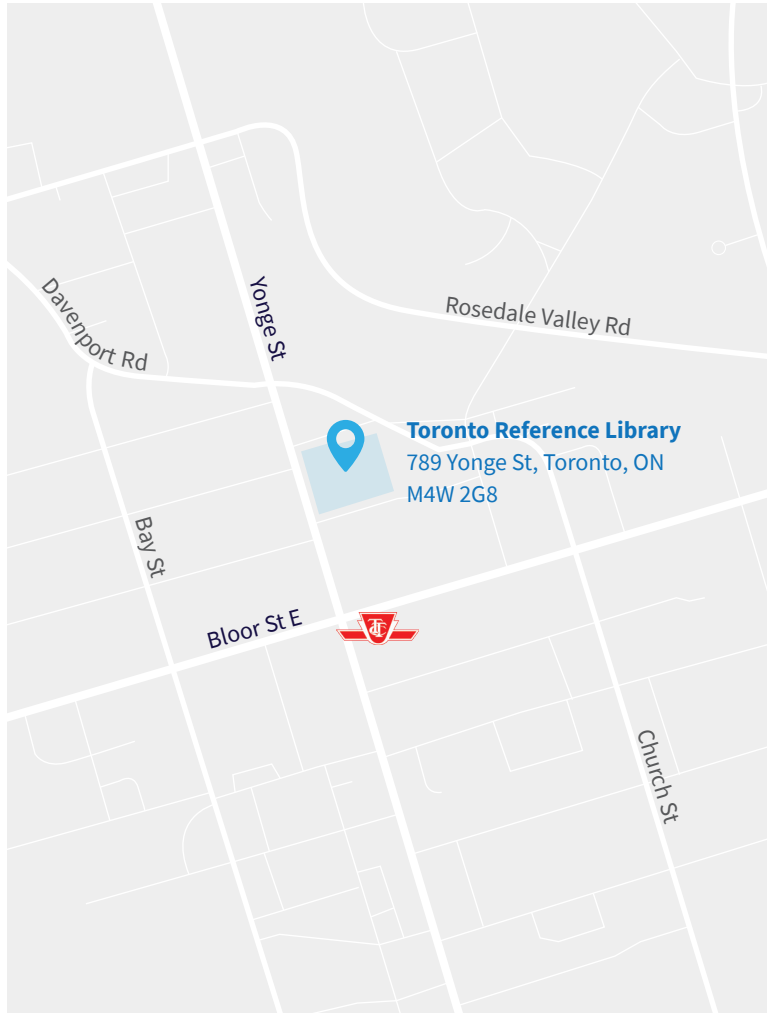
Ewa Szumacher Odette Cancer Centre
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Kieng Tan Princess Margaret Cancer Centre
Dept. of Radiation Oncology, University of Toronto

Monica Van Larkin Carlo Fidani Regional Cancer Centre

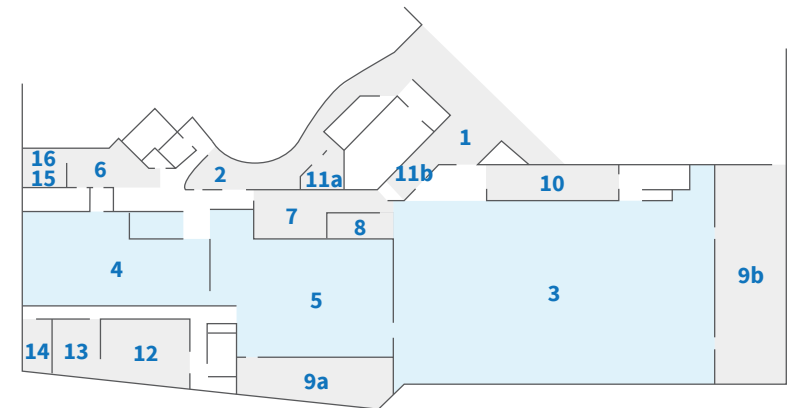
Prisheela Yogendran Dept. of Radiation Oncology, University of Toronto

CONFERENCE MAP



VENUE FLOOR PLAN

- 1 'Epic' Entrance
- 2 'Novella' Entrance
- 3 'Epic' Hall
- 4 'Novella' Room
- 5 'Prologue'
- 6 South Kitchen
- 7 North Kitchen
- 8 Bar
- 9a East Terrace
- 9b North Terrace
- 10 Storage
- 11a 'Novella' Coat Check
- 11b 'Epic' Coat Check
- 12 Women's WC
- 13 Men's WC
- 14 Accessible WC
- 15 Men's Staff WC
- 16 Women's Staff WC



KEYNOTE SPEAKERS

KEYNOTE SPEAKERS



INNOVATE KEYNOTE ADDRESS



**Sophie Foxcroft, BSc., MRT(T),
MSc., CHE**

Friday May 31
9:20 AM – 10:10 AM

Biography

Sophie Foxcroft is the Director of System and Infrastructure Planning at Cancer Care Ontario where she leads strategic system planning and capacity planning to ensure a sustainable health system. Sophie's key responsibilities include: development of the Ontario Cancer Plan; oversight of capital investment strategies; infrastructure planning for diagnostic and treatment facilities; health human resource workforce planning for oncology specialists; and service volume planning for complex malignant hematology, cancer imaging, radiation treatment and palliative care.

PLANNING THE WAY FORWARD

Session Description

Planning is essential to delivering health care that is person-centred, safe and effective in an efficient, equitable and timely manner. Multi-year strategic and capacity plans continue to drive improvements in the quality and performance of Ontario's cancer system and contribute to the sustainability of the health system. Plans that are designed to anticipate and be responsive to changing clinical practice, new models of care, and emerging technologies are needed in our ever-evolving health landscape. This session will explore the development and application of various regional and provincial cancer planning models in Ontario.

INTERPROFESSIONAL KEYNOTE ADDRESS



Paul Boutros, PhD, MBA

Friday May 31

4:05 PM – 4:45 PM

Biography

Dr. Paul Boutros began his career as a chemist at the University of Waterloo, before moving into Medical Biophysics and ultimately computational oncology at the University of Toronto. He spent a decade at the Ontario Institute for Cancer Research in Toronto, leading the Canadian Prostate Cancer Genome Network. In 2018 he relocated to the University of California, Los Angeles, where he is the Director of Cancer Data Science and a Professor in Urology and Human Genetics.

BIOMARKERS FOR PROSTATE CANCER

Session Description

Molecular diagnostics are routine in some tumour types, but not yet in prostate cancer. However, a series of assays are seeing gradual increases in adoption rate, and several of these show the potential to improve stratification of patients with localized disease into groups with distinct risks of relapse. This session will overview these, distinguishing the relative roles of germline and somatic markers, and highlighting the future development efforts that will be needed to bring them into routine usage. We also discuss how genomic assays may be layered with pathology, radiology and other prognostic tests.

INSPIRE KEYNOTE ADDRESS



**Charles Washington, MBA, RT(T),
ARRT, FASRT**

Saturday June 1
8:30 AM – 9:20 AM

Biography

Charles Washington serves as the Senior Director in Radiation Oncology at Memorial Sloan-Kettering Cancer Center in New York, NY serving in this role since 2012. Prior to his transition to New York, Charles served as Director of Proton Therapy, Clinical Director of Operations, Radiation Therapy Program Director, and Certified Radiation Therapist at The University of Texas M.D. Anderson Cancer Center in Houston, TX for 25 years.

Charles started his therapy career after graduation from Wayne State University's Radiation Therapy Technology Program in Detroit, Michigan, with a baccalaureate degree in science.

He received his Masters in Business Administration from the Keller Graduate School of Management of DeVry University. Charles is currently matriculating in the Doctoral Program in Organizational Change and Leadership at the University of Southern California. Charles' dissertation is an explanatory sequential mixed methodology review of service recovery impact on patient experience and satisfaction in radiation oncology.

Charles has also served as an American Society of Radiologic Technologist appointed Trustee of the American Registry of Radiologic Technologists, having completed eight years of service on that board, and as well, an ARRT appointed Board Trustee of the American Board of Imaging Informatics, serving for over four years. Charles has edited and authored many professional articles and books, inclusive of the Principles and Practice of Radiation Therapy textbook published by Mosby, currently developing a fifth edition. Charles has instructed and lectured on the local, regional, national, and international levels.

MAKING THE IMPOSSIBLE POSSIBLE: INSPIRING THE DEVELOPMENT OF OBTAINABLE PERFORMANCE GOALS FOR RADIATION ONCOLOGY PRACTICE

Session Description

Developing a Radiation Oncology practice is at best a challenging and difficult task and many administrators and chiefs put in an abundant amount of effort to ensure their practice thrives and delivers the level of care intended to patients. Having clear objectives and goals are critical in implementing the right strategies at the right time, making the operations smooth and manageable. This presentation will explore development of objectives and goal setting strategies in preparation for successfully delivering appropriate care as designed. An exploration of strategic and tactical tools will be discussed.

INQUIRE KEYNOTE ADDRESS



Pete Bridge, PhD

Friday May 31

12:30 PM – 1:20 PM

Biography

Dr. Pete Bridge is currently a senior lecturer in Radiotherapy at the University of Liverpool where he teaches radiotherapy planning, physics and research skills. Prior to this, he worked as a senior lecturer and undergraduate course coordinator at Queensland University of Technology in Brisbane, Australia. Pete's research interests lie in innovative radiotherapy education and particularly the use of simulation.

He conducted the first evaluation of a virtual linear accelerator educational resource prior to its commercialization as VERT (Virtual Environment for Radiotherapy Training) and led a funded project to develop and evaluate a medical imaging 3D immersive educational environment. He has published on a wide range of educational innovations ranging from VR applications to engaging patients to provide student feedback. He co-authored the "CT Anatomy for Radiotherapy" textbook and currently delivers training on MR Anatomy for Radiotherapy. Pete's PhD concerned the use of 3D immersive visualization for radiotherapy structure outlining and he has just completed supervision of another project investigating use of 3D VR for IGRT image fusion. Despite this he maintains that he is not a geek. In his spare time he enjoys mountains, mud and good beer.

NURTURING CURIOSITY IN THE RADIOTHERAPY WORKFORCE

Session Description

Advances in automation and AI technology in radiotherapy not only bring great benefits in terms of efficiency and accuracy but also have the potential to reduce human input into the process. It is important that human clinicians retain oversight in radiotherapy and continue to drive ongoing improvements. Against this backdrop it is increasingly important that the workforce is encouraged to critique, challenge and drive innovation in the workplace. This can best be achieved by adopting a curious approach to clinical practice and life in general. This spirit of enquiry should be actively encouraged in radiotherapy education and this keynote highlights key examples of where an enquiry-based approach has led to innovation which can not only change practice but also inspire a new generation of inquisitive minds.

SPECIAL SESSIONS



SPECIAL
SESSIONS

WORKSHOP

PATIENT REPORTED OUTCOMES: EQUIPPING RADIOTHERAPY TEAMS WITH THE KNOWLEDGE AND SKILLS TO 'GO PRO'

Speakers: Fiona Mitchell, Karey McCann, Alex Liska, Winter Spence

Friday May 31

1:05 PM – 2:05 PM

Session Description

Patient reported outcomes (PROs) have been implemented into practices in oncology settings internationally, including Canadian radiotherapy (RT) centres. The use of PROs allows for patients to take greater control of their own health outcomes through formalized reporting of symptoms and concerns using validated tools. Furthermore, it allows RT clinicians to personalize their treatment approach and to enhance patient-provider and interdisciplinary communication. Use of PROs in RT practice also allows for identification of unrecognized problems, timely intervention, and monitoring of treatment response, leading to an overall improvement in patient experience and outcomes.

This workshop will define PROs and their use in RT settings, as well as review the current evidence regarding PROs. Clinical examples of the use of PROs will be presented. A facilitated table discussion with an interactive online component will then allow participants to discuss the current usage and roles for PROs, and the challenges and benefits of implementation within RT departments.

By the end of this workshop participants will:

- Understand the definition, components, usage of PROs, and recognize the value of implementing into RT clinical practice.
- Appreciate how the information gathered through PROs can be incorporated into a personalized clinical care plan for their patients.
- Be provided with learning tools to support RT teams to build confidence having conversations involving PROs, accessing site resources, and enhancing team collaboration.

NATIONAL INNOVATION SNAPSHOT CAMRT

Speakers: Jennifer Lam, Rosanne Belisle, Elana de Pagter, François Gallant, Sarah Zolis, Krista Bota, Winnie Li, Manon Lacelle

Friday May 31

1:05 PM – 2:05 PM

Session Description

An annual conference highlight now in its 5th year, the National Innovation Snapshot (NIS) is a rapid-fire session providing Radiation Therapists from across Canada an opportunity to showcase their local, practice-based innovations to the wider community. Work presented this year will include education interventions, quality improvement initiatives and treatment innovations, all of which will be of interest to delegates in a variety of roles and a range of practice settings. Brand new for 2019, RTI3 is proudly collaborating with the Canadian Association of Medical Radiation Technologists (CAMRT) to deliver this session. Through their generous support, a number of NIS-CAMRT Travel Awards have been made available to encourage RTI3 participation from Radiation Therapists across the country.

By the end of this workshop participants will:

- Understand how education sessions can help prostate cancer patients prepare for treatment.
- Describe a simple change in gown style that can maintain the dignity of breast cancer patients.
- Define QI techniques that can be used to reduce treatment delays.
- Express the benefits of an interprofessional music program for patients on active radiation treatment.
- Explain how a staff declaration can streamline continuing education within a radiation therapy department.
- Perceive the necessity of serious illness conversation training for medical radiation technologists.
- Characterize the design of a bariatric couch for external beam radiation therapy.
- Outline the components of a multidisciplinary treatment planning education program.

STUDENT ONLY LUNCH SESSION

SPEED DATING Q & A

Discussion Leaders: Elen Moyo, Carly McCuaig, Carmen Chan, Devin Hindle

Saturday June 1

11:40 AM – 12:30 PM

Session Description

Students, bring your lunch and participate in this new Q&A session. Have face-to-face time with experts who will answer your FAQs about: What are managers looking for in a new hire? How to get your research published? How to survive and thrive during your first year as a Therapist?

“Speed dating” will consist of small, round table discussion sessions for RT students. There will be 3 round tables, each hosted by one (or two) discussion leaders. Students will be divided into 3 small groups, and will rotate between the 3 tables in 10 minute intervals. The discussion leaders will get the conversation started, and then the students will have the opportunity to ask them questions.

Session Objectives:

- To provide students with an opportunity to talk face-to-face with experts.
- To provide a comfortable environment for students to ask important questions about their future.

AGENDA

AGENDA

CONFERENCE SCHEDULE

FRIDAY, MAY 31, 2019

- 8:00 AM – 9:00 AM** **Registration and Breakfast (*Prologue*)**
- 9:00 AM – 9:10 AM** **UT DRO Chair Welcome and Opening Remarks (*Epic Hall*)**
– *Dr. Fei-Fei Liu*
- 9:10 AM – 9:20 AM** **Conference Chairs Welcome and Opening Remarks (*Epic Hall*)**
– *Laura D’Alimonte and Michael Velec*
- 9:20 AM – 10:10 AM** **Innovate Keynote Address (*Epic Hall*)**
(50 min) Planning the Way Forward – *Sophie Foxcroft*
- 10:10 AM – 10:40 AM** **Innovate Plenary Session (*Epic Hall*)**
(30 min) A Technique to Accumulate External-Beam and Brachytherapy Doses for Prostate Radiotherapy
– *Aran Kim*
-
- 10:40 AM – 11:05 AM** **Break and Poster Viewing**
(25 min)
-

11:05 AM – 12:05 PM
(60 min)

Proffered Session 1 Motion Management Innovations (*Epic Hall*)

– *Moderator:*
Darby Epler

Evaluation and Validation of an Image-Guided Traffic Light Protocol for Head and Neck Cancer Patients Undergoing Radiotherapy
– *Filipa Sousa*

Prostate or Bone? – Comparing the Efficacy of Image Guidance Surrogates For Pelvis & Prostate Radiotherapy Using Accumulated Delivered Dose
– *Vickie Kong*

Implementing and Improving Pancreas SBRT: One Challenge at a Time – *Saher Ali*

Proffered Session 2 Novel Operations and Models of Care (*Novella*)

– *Moderator:*
Ruvette Coelho

Utilizing Quality Improvement Methods to Examine the Radiation Therapy Pathway for Patients Requiring Urgent Radiation Therapy at a Community Cancer Centre
– *Carrie Lavergne*

Development of a Collaboration Model Between Two Cancer Centres to Maintain Patient Access to Radiation Therapy During the Replacement of a Sole CT Simulator at a Regional Cancer Centre
– *James Loudon*

Radiation Therapy 7 Days a Week
– *Sandy Garraway*

11:05 AM – 12:05 PM
(Continued)

LIVER: Live IGRT
VErification for
Respiratory-gated
Hepatic Tumors
– *Melissa O’Neil*

Use of Moderate Deep
Inspiration Breath
Hold for Loco-Regional
Radiotherapy of Right
Breast Cancer Including
Internal Mammary
Lymph Nodes
– *Gulaid Mohamoud*

Implementing Daily
Team Huddles within
a Radiation Therapy
Department to Improve
Team Communication
and Morale

– *Madette Galapin*

Increased Automation
and Artificial
Intelligence in
Radiation Therapy
Clinical Practice: A
Qualitative Exploration
of Radiation Therapist
Perceptions
– *Elen Moyo*

1:05 PM – 2:05 PM
(Continued)

Dose/Volume
Relationships Between
Anatomically Distinct
Bowel Regions and Late
GI Toxicity After EBRT for
High-risk Prostate Cancer
– *Fatima Oshin*

Establishing Guidelines
for Quality Assurance
and Clinical Application
of Metal Artifact
Reduction (O-MAR)
Software in Radiation
Therapy – *Derek Lo*

Determining Potential
Benefits of Volumetric
Image Matching in
Radiation Therapy
– *Sarah Aubert*

Current Vaginal Dilator
Practice Across Canada
– *Regan Clarke*

Exploring the Utilization
of Single Fraction
Radiation Therapy for
Bone Metastases at a
Community Cancer
Centre from 2014-2018:
A Retrospective Analysis
and Comparison to
Canadian Literature
– *Deanna Ng Humphreys*

12:05 PM – 1:05 PM
(60 min)

Lunch Break

1:05 PM – 2:05 PM
(60 min)

**Junior Investigator
Session (*Epic Hall*)**
– *Moderator:*
Tara Rosewall

Quantitative
Thermography and
Grey-tone Difference
Matrix Texture Features
Correlate with
Radiation-induced Skin
Toxicity – *Jillian Sindo*

Workshop (*Novella*)
– *Moderator:*
Mikki Campbell

Patient Reported
Outcomes: Equipping
Radiotherapy Teams
with the Knowledge
and Skills to ‘Go PRO’
– *Fiona Mitchell,*
Karey McCann, Alex
Liska, Winter Spence

2:05 PM – 2:10 PM

Transit Time

2:10 PM – 3:10 PM
(60 min)

**Proffered Session 3
Patient Experience
and Outcomes
(Epic Hall)**

– Moderator:
Merrylee McGuffin

The Prevalence
and Determinants
of Return to Work
in Nasopharyngeal
Carcinoma Survivors
– *Nathaniel So*

Symptom Burden
Among Northern
Alberta Radiotherapy
Patients with Advanced
Cancer: Mapping Needs
and Gaps
– *Winter Spence*

A Patient’s Perspective:
Bridging the Transition
Following Radiation
Therapy Treatments
for Patients With Breast
Cancer – *Alex Liska*

**Proffered Session 4
Quality Improvement
and Safety (Novella)**

– Moderator:
James Loudon

Implementation of
an On-line Incident
Learning System in a
Radiation Medicine
Program
– *Agnes Cheung*

Deviation from
Standard Practice
Reporting – a Novel
Technique to Directly
Improve Quality and
Safety within Radiation
Treatment Program
– *Cassandra Costello*

Improving the Quality
of Patient Data Capture
in Breast Radiotherapy
Peer-Review
– *Grace Lee*

2:10 PM – 3:10 PM
(Continued)

What Was it Like for
You? The Experience
of a Radiation Skin
Reaction in Patients
with Head and Neck
Cancer – *Angela Cashell*

Enhancing Person-
centred Care by
Improving the Use
of Patient Reported
Outcomes Among
Radiation Therapists
– *Lynn Nguyen*

Implementing
Technology to Drive
Improvements
within a High Volume
Brachytherapy
Program
– *Laura D’Alimonte*

Minimizing Anaesthesia
Use in Paediatric
Radiation Therapy
– *Stephanie Ntoukas*

3:10 PM – 3:35 M
(25 min)

Break and Poster Viewing

3:35 PM – 4:05 PM
(30 min)

Inspire Plenary Session (Epic Hall)

Identifying a Niche: Development of the Orthopedic
Radiation Oncology Clinic – *Julie Blain*

4:05 PM – 4:55 PM
(50 min)

Inter-professional Keynote Address (Epic Hall)

Biomarkers for Prostate Cancer – *Paul Boutros*

4:55 PM – 5:00 PM

Day One Closing Remarks (Epic Hall)

– *Michael Velec, Laura D’Alimonte*

5:00 PM – 8:00 PM

Reception & Poster Viewing

Network, Share and Learn over drinks, appetizers
and conversation!

SATURDAY, JUNE 1, 2019

- 8:00 AM – 8:25 AM** **Registration and Breakfast (*Prologue*)**
- 8:25 AM – 8:30 AM** **Welcome and Opening Remarks (*Epic Hall*)**
– *Laura D’Alimonte and Michael Velec*
- 8:30 AM – 9:20 AM** **Inspire Keynote Address (*Epic Hall*)**
(50 min)
Making the Impossible Possible: Inspiring the Development of Obtainable Performance Goals for Radiation Oncology Practice – *Charles Washington*

9:20 AM – 9:25 AM **Transit Time**

- 9:25 AM – 10:25 AM** **National Innovation Snapshot (*Epic Hall*)**
(60 min)
– *Moderators:*
Merrylee McGuffin,
Brian Liszewski
- Education Sessions for Prostate Patients Receiving EBRT
– *Jennifer Lam*
- Sustaining a Small Yet Meaningful Program for Your Patients: Dignity Robes at the WRCPC
– *Rosey Belisle,*
Alice McKenzie
- Proffered Session 5 Planning and Treatment Outcomes (*Novella*)**
– *Moderator:*
Natalie Rozanec
- Development of a Reference Planning Template for MR Linac treatment of Brain Patients – *Shawn Binda*

9:25 AM – 10:25 AM
(Continued)

- Reducing Delays to Treatment for P2 Patients Using QI Techniques
– *Elana de Pagter*
- Music Health Cares
– *François Gallant*
- Radiation Therapists’ Staff Declaration at the Durham Regional Cancer Centre
– *Sarah Zolis*
- Serious Illness Conversations: An RT Approach – *Krista Bota*
- Development and Implementation of an In-house Bariatric Couch for External Beam Radiation Therapy – *Winnie Li*
- Multidisciplinary Treatment Planning Education in Ottawa
– *Manon Lacelle*
- Semi-Automated Volumetric Modulated Arc Therapy Planning for Post-Operative Radiotherapy in Endometrial Cancer: Improvements in Normal Tissue Sparing and Planning Time
– *Tony Kin-Ming Lam*
- Every Breath You Take - Evaluating Respiratory Motion of the Bony Thorax in the Context of Bone SBRT
– *Darby Erler*
- Safety and efficacy of pre-operative, short course radiation therapy for prostate cancer: Results from a Phase I trial
– *Tara Rosewall*
- Does Accumulated Dose to Parotid Glands Improve Prediction of Patient Reported Outcomes Related to Salivary Function in Nasopharyngeal Cancer Patients?
– *Olive Wong*

10:25 AM – 10:30 AM **Transit Time**

10:30 AM – 11:30 AM
(60 min)

**Proffered Session 6
Patient Education
(Epic Hall)**

– Moderator:
Martin Chai

“How are you today?”:
Partnering with Patient
Volunteers to Enhance
Documentation in
Radiation Therapy
Practice
– *Marnie Peacock*

Harnessing
Interprofessional
Expertise and Patient
Lived Experience:
Developing a
Care Pathway for
Gynecological
Cancer Patients
Receiving Interstitial
Brachytherapy
– *Aaron Cumal*

Development and
Implementation of an
Online Educational
Module for the Deep
Inspiration Breath-Hold
Technique
– *Jessica Gluszko*

**Proffered Session 7
Evolving Role of the
Radiation Therapist
(Novella)**

– Moderator:
Lisa Di Prospero

Progress Towards a
Person-Centered Model
of Care for Radiation
Therapy – *Diana Lee*

Expanding the Role of
the Radiation Therapist
in Brachytherapy for
Cervical Cancer at the
Odette Cancer Centre
– *Mackenzie Smith*

Coming Out in
Radiation Therapy:
A Narrative Inquiry
– *Amanda Bolderston*

Examining the
Prevalence of
Compassion Fatigue
and Burnout in
Radiation Therapists
Caring for Palliative
Cancer Patients
– *Alexandra Sarra*

10:30 AM – 11:30 AM
(Continued)

A Radiation Therapist-
Led Educational
Intervention for
Patients Receiving
Radiotherapy for
Gastro-intestinal and
Lung Cancer
– *Christine Hill*

Inspiring Change in
Radiation Therapy
Patient Education
– *Amanda Jacques*

Think
Unconventionally:
Staffing Should Not Be
a Threat to MRI-Guided
Radiation Therapy
– *Mikki Campbell*

11:30 AM – 12:30 PM
(60 min)

Lunch & Student Speed Dating (Novella)

– Moderator: *Grace Lee, Nathaniel So*

12:30 PM – 1:00 PM
(30 min)

Inquire Plenary Session (Epic Hall)

The Speedy CTV: Creation of an Adaptable Spine
CTV Mesh to Decrease Contouring Times
– *Natalie Rozanec*

1:00 PM – 1:50 PM
(50 min)

Inquire Keynote Address (Epic Hall)

Nurturing Curiosity in the Radiotherapy Workforce
– *Pete Bridge*

1:50 PM – 2:00 PM
(10 min)

Closing Remarks, Prizes & Awards (Epic Hall)

– *Laura D’Alimonte, Michael Velec*

2:00 PM

End of Conference

Thank you for Attending the 2019 RTi3 Conference!

POSTERS



POSTERS

1. Student-Centred Learning for Patient-Centred Care: Development and Application of a Provincial Clinical Teaching Philosophy – *Heather Gaunt*
2. Examining the Information Needs of the Lung Cancer Patient in Radiation Therapy – *Jennifer Lam*
3. Investigating The Need For A Standardized Adaptive Radiotherapy Model for Tumor Bed Boost Treatment In Early Stage Breast Cancer Patients – A Retrospective Quality Study – *Jinhong Min**
4. A Qualitative Analysis of Human Error within the DIBH Procedure – *Kennedy Holland**
5. Essential Role of a Radiation Therapist in an Accelerated Partial Breast Radiation Cosmesis Trial – *Mark Lesiuk*
6. The Effectiveness of Mammography as a Screening Method to Detect Breast Cancer in High Breast Density Populations – *Hailey Richards**
7. A Retrospective Study Comparing The Effectiveness Of The Resources; (Time, Money And Human Resources), Used For Stereotactic Radiosurgery (SRS) And Whole Brain Radiation Therapy (WBRT) Treatment For Palliative Brain Metastases Patient At Carlo Fidani Peel Regional Cancer Center – *Nawroz Fatima**
8. On Treatment Consultations – a Method to Increase Communication within the Radiation Therapy Department – *Amanda Lamb*
9. How Long is Too Long? Tshé GK Icon Experience – *Kayla MacIntyre**
10. Bridging the Gap: Integrating Tobacco Cessation into Cancer Care – *Natasha McMaster*
11. Hear Hooves, Think Zebras: A Case Report & Systematic Literature Review of Isolated Neck Node Metastases from Prostate Cancer – *Tara Rosewall*
12. Prostate Margin Reduction for External Beam Radiation Therapy Treatment of High-Risk Prostate Cancer Including Pelvic Lymph Nodes – *Samantha Bulger**
13. Can Volumetric Modulated Arc Therapy (VMAT) Improve Conformity, Dose Homogeneity and Speed of Delivery in Radiation Therapy Treatments for Spinal Metastases Compared to Conventional Techniques? – *Meagan Robbins**
14. Comparison of Planned and Estimated Delivered Dose to the Pharyngeal Constrictor Muscles in Head and Neck Patients – *Ankur Sharma**
15. A Novel Application of Varian’s RapidPlan Knowledge-Based Planning Tool to Screen for Significant Contour Changes in Nasopharyngeal Cancer Patients For Replanning Purposes – *Valerie Phillips**
16. Dosimetric Effects of Paint Application in Pediatric Immobilization in Radiation Therapy – *Sarah Kohli**
17. Evaluation of a High-Density 3D Printed Material for Orthovoltage Cutout Shielding – *Kathy Song**
18. Operational Capacity Modeling: A Novel Approach to Optimize Radiation Treatment Capacity – *Gulaid Mohamoud*
19. Determining the Correlation Between Respiration-Induced Liver Deformity and Liver Disease Status – *Jillian Klassen**
20. Normal Tissue Reproducibility using Abdominal Compression Evaluated with Magnetic Resonance Imaging – *Maureen Lee**
21. Evaluation of Multiparametric Magnetic Resonance Imaging Dose Painting to Dominant Intraprostatic Lesion in Prostate HDR Brachytherapy – *Yannie Lai**
22. Monaco Super User: An Agent of Change in Ensuring the Readiness of MRI Guided Radiation Therapy – *Shawn Binda*
23. A Retrospective Study: Does the Signal Intensity Highlighted in Red by the Wood’s Lamp Correlate to the Pain Felt by the Patient During Photodynamic Therapy Treatment? – *Prisheela Yogendran**
24. Quantitative Thermal Imaging to Evaluate Acute Skin Toxicity from Radiation Treatment using GLCM texture biomarkers: Dosimetric Associations – *Prisheela Yogendran**
25. Quantitative Thermal Imaging Using Grey-Level Run Length Matrix Texture Features Correlate to Radiation Induced Skin Toxicity – *Victor Lin**

**Junior Investigator*

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The following will be awarded to abstract presenters at the conclusion of the conference. Scoring will be completed by members of the organizing committee and based on standard criteria.

- **Best Oral Presentation Award**
- **Best Poster Award**
- **Junior Investigator Oral Presentation Award**
- **Junior Investigator Poster Award**

The following authors submitted abstracts that were among the highest rated in peer-review, noted for potential impact on the field, and aligned with the main RTi3 pillars: Inquire, Inspire, Innovate.

Aran Kim – *A Technique to Accumulate External-Beam and Brachytherapy Doses for Prostate Radiotherapy*

Julie Blain – *Identifying a Niche: Development of the Orthopedic Radiation Oncology Clinic*

Natalie Rozanec – *The Speedy CTV: Creation of an Adaptable Spine CTV Mesh to Decrease Contouring Times*

The following presenters in the National Innovation Snapshot have been granted Travel Awards to RTi3, supported by the Canadian Association of Medical Radiation Technologists.

- **Rosanne Belisle**
- **Manon Lacelle**
- **Jennifer Lam**
- **Elana de Pagter**



SPECIAL THANKS

We wish to highlight the efforts of and extend our gratitude to the abstract reviewers for RTi3 2019. All submitted abstracts underwent a rigorous double-blind peer review, and we are grateful to those who volunteered their time and expertise.

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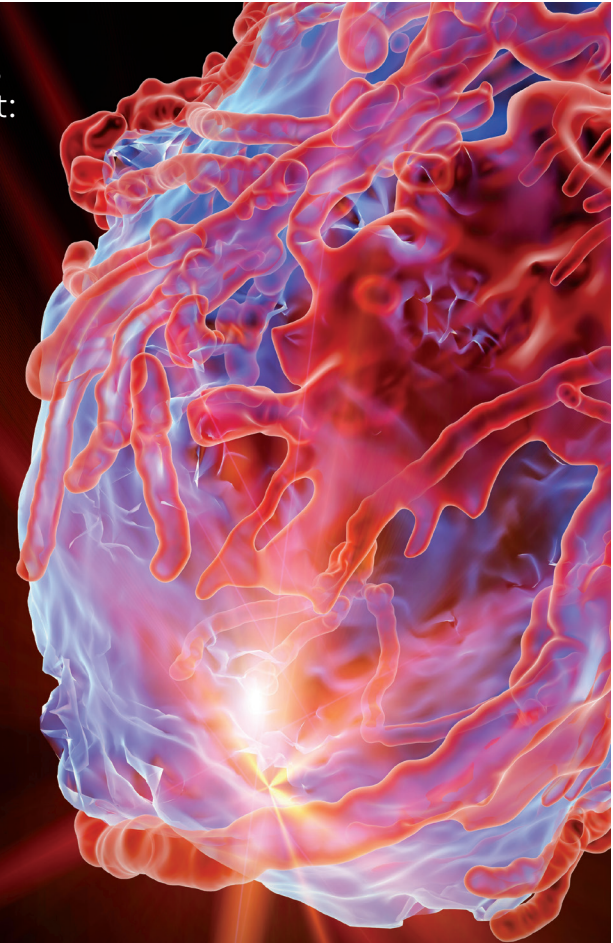


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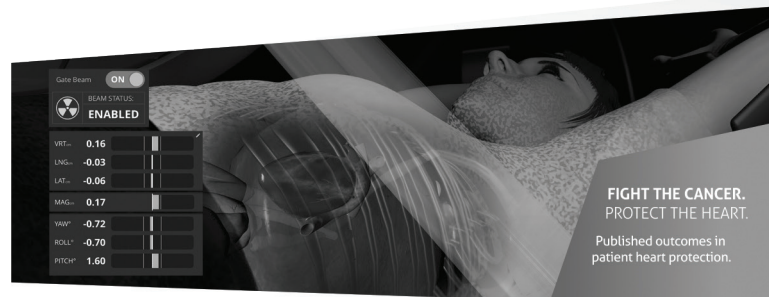
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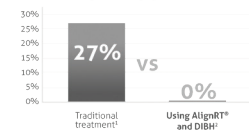
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