

# Image Guided and Adaptive Radiation Therapy

October 9–13, 2007 • Sheraton Centre, Toronto, Ontario, Canada

# CARO-COMP 2007

Canadian Association of Radiation Oncology • Canadian Organization of Medical Physicists

CARO-COMP 2007

REGISTRATION

PRE-CONFERENCE  
EVENTS

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2007 EXHIBITORS

The Workshops and the Refresher Course run concurrently on Friday, October 12, and Saturday, October 13.

Registrants are required to select only one.

Friday [refresher course & workshops](#)

Saturday [refresher course & workshops](#)

The theme for the 2007 Meeting is Image Guided and Adaptive Radiation Therapy. With the combined participation of medical physicists and radiation oncologists we expect to review the latest advances in guidance using both conventional and cone-beam kV and MV systems, ultrasound, MRI and radioisotopes. In addition, we will examine the challenges of measuring the changes to targets during the course of radiation therapy and changing our radiation delivery in response to those changes.

## Session types:

### Workshop

A 1.5-hour time slot has been allocated for this educational session with emphasis on interaction and exchange of information. Enrollment is limited to 35 participants.

### Refresher Course

A 1.5-hour time slot has been allocated for this presentation session under the guidance of an expert discussion leader.

### Friday, October 12

Refresher Course and Workshops  
concurrent sessions (4:00–5:30pm)

### Refresher Course 1

*Review of Limited-stage Lymphoma Management, and Modern RT Volume Definition of the Involved Field*

Richard Tsang

### Objectives

- To review and update current role of RT in stage I/II HL and NHL
- To illustrate with cases, CTV definition of modern involved field treatments

Simcoe/Dufferin

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### **Workshop 1**

*Image Guidance and Adaptive Radiation Therapy with Tomotherapy: Canadian Experience*

Glenn Bauman

Conference Room G,  
Mezzanine Level

Objectives

- To understand the role of the on-board megavoltage CT studies performed immediately before radiation delivery.
- To evaluate the significance of set up corrections for various immobilization options and different disease sites. To learn the possibilities of adaptive radiation therapy from the experiences of cancer centres in London, Edmonton, Ottawa, Sunnybrook.

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### **Workshop 2**

*Quality Assurance in NCIC CTG Clinical Trials: Current Capabilities and Future Directions*

Colin Field

Spindrift/Spring  
Song, 4th Floor

Objectives

- Become familiar with NCIC CTG infrastructure to support 2D and 3D data submissions and review processes
- Describe quality assurance needs for current and future radiation technologies

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### **Workshop 3**

*Making Radiation Therapy Safer*

Jean-Pierre Bissonnette

Conference Room H,  
Mezzanine Level

Objectives

- Understanding the need of a new paradigm for quality assurance in radiation therapy including processes and human interactions in addition to devices and software.
- Learn how to use practical tools, including taxonomies, reporting mechanisms, learning and feedback strategies, which help to make radiation therapy safer.

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#### **Workshop 4**

*Image-Guided HDR Brachytherapy for Cervical Cancer – Why and How?*

Corinne Doll

Conference Room F,  
Mezzanine Level

#### Objectives

- Understand the rationale for using image guidance and 3D planning for HDR brachytherapy of cervical cancer.
- Learn available methods of image guided brachytherapy
- Learn how to implement a program of image-guided brachytherapy for cervix

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### **Saturday, October 13**

Refresher Course and Workshops  
concurrent sessions (3:30–5:00pm)

#### **Refresher Course 2**

*Registration for Image-Guided and Adaptive Radiation Therapy*

Kristy Brock

Dominion North

Attendees will learn basic concepts of image registration, from manual rigid registration to automated deformable registration, including the advantages and disadvantages of each. Clinical cases will be presented and attendees will learn how to interpret registration results, validate the accuracy, and optimize the integration of multiple images into their practice.

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#### **Workshop 5**

*Partial Breast RT - Planning and Treatment Issues*

Ivo Olivotto

Simcoe/Dufferin

#### Objectives

- To review and propose solutions to practical challenges in PBRT planning
- To review dose-volume constraints as part of the RAPID trial
- To review PBRT target volume definition issues
- To enhance consistency of PBRT on RAPID

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### **Workshop 6**

*Exploring Interprofessional and Collaborative Roles for Patient-centered Care*

Ewa Szumacher

Conference Room D,  
Mezzanine Level

At the end of the session participants will be able to:

- Explain how interprofessional education is related to collaborative patient-centered practice.
- Explain the importance of: stereotypes, professional role understanding, role blurring and its negotiation and their impact on collaborative patient-centered practice.
- Describe innovative strategies for facilitating interprofessional education.
- Develop an idea for an interprofessional education initiative in the participants' own settings.

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### **Workshop 7**

*6MV vs 18MV and Heterogeneity Corrections in Lung Cancer. Does it Matter?*

Sergio Faria

Conference Room H,  
Mezzanine Level

Objectives

- To understand the differences between these two photo energies in the treatment of lung cancer with radiation
- To analyze clinical relevance and specific recommendations in treatment protocols
- To discuss the issues of heterogeneity corrections in lung

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### **Workshop 8**

*Imaged-Guided Adaptive Radiotherapy for Gynecologic Cancer: Development of a Pan-Canadian Strategy*

Michael Milosevic

Conference Room F,  
Mezzanine Level

## Objectives

- To discuss tumor movement and regression during radiotherapy, and the implications for IMRT and brachytherapy.
- To develop a strategy for image-guided brachytherapy.
- To discuss adaptive IMRT for cervix cancer.
- To develop a common nomenclature for identifying relevant targets and organs at risk in the treatment of gynecology malignancies.

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## Workshop 9

*Radiation Proctitis - Towards Developing Ideas for Research and Guidelines for Treatment*

Wilfred Levin

Conference Room  
G. Mezzanine  
Level

## Objectives

- Gain an understanding of the patient, and treatment factors associated with the development of Radiation Proctitis
- Understand the rationale for available treatment options for radiation proctitis
- Be aware of the opportunities for clinical and biological research.

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If you have any questions, please contact:

Mary Hooey, ASM Coordinator

416 946 4457

[mary.hooey@uhn.on.ca](mailto:mary.hooey@uhn.on.ca)

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