**Radiation Treatment Incident Investigation and Learning with the
CPQR/CIHI National System for Incident Reporting in Radiation Treatment (NSIR-RT)**

Dates
TBD – Fall 2017

Course Leader
Michael Milosevic, Princess Margaret Cancer Centre, Toronto, ON

Participants
Canadian radiation treatment professionals involved in incident investigation, analysis and reporting

Incident Learning in Radiation Treatment

Both within Canada, and around the world, advances are being made in how radiation treatment programs identify, classify and report incidents and then use the collected data to reduce incident propagation and improve patient and staff safety. This online program will teach attendees how to effectively investigate local incidents using the Canadian Patient Safety Institute (CPSI) guidelines, identify trends through local and pan-Canadian incident analysis and inform programmatic change with the aim of improving overall patient care and outcomes.

This accredited, seven-week online course, coordinated by CPQR, will include weekly web-based lectures (1.5 hours x 7) and a series of case-based assignments totalling 20 hours of course work. It will provide a foundation for the rigourous and harmonized investigation and reporting of radiation treatment incidents at the local, regional and national level.

Upon completion of the course, the participant will be able to:
- Create and implement an incident learning process using strategies for managing change and translating knowledge
- Employ the CPSI comprehensive incident investigation guidelines to analyze and investigate no/low-harm and complex/complicated incidents
- Classify and report events using the CPQR/CIHI National System for Incident Reporting in Radiation Treatment (NSIR-RT)

Weekly sessions will be structured around the following themes:

Week 1: Overview of incident learning
Faculty will describe the importance of incident investigation, learning and reporting; radiation treatment programmatic response to an incident; and types of radiation treatment patient safety events. They will provide an introduction to methods for analysing incidents including

the CPSI incident reporting framework and the London protocol for incident investigation; an overview of incident reporting requirements in Canada and internationally; and an introduction to NSIR-RT system.

Week 2: Concise Incident analysis
Participants will have a more in-depth look at the CPSI concise incident investigation guidelines for no or low harm events drawing on investigation and analysis examples grounded in real-world patient safety events.

Week 3: Comprehensive incident analysis
Using more real-life examples, participants will explore the CPSI comprehensive incident investigation guidelines for complicated or complex events or those associated with severe harm.
Student-led case discussion assignment

Week 4: NSIR-RT
Participants will learn the history, development and scope of NSIR-RT- its key features, organization and data structure, the NSIR-RT minimum data standard, and NSIR-RT analytical tools.

Week 5: Incident Classification using NSIR-RT (Round 1)
Participants will practice using NSIR-RT to classify radiation treatment patient safety events commonly encountered in routine clinical practice provided by faculty and by participants.
Student-led case discussion assignment

Week 6: Incident Classification using NSIR-RT (Round 2)
Participants will further refine their radiation treatment incident classification skills using NSIR-RT with challenging, frequently misclassified patient safety events both provided by faculty and by participants.

Week 7: Moving ahead
Faculty will highlight the key opportunities and challenges for implementing incident learning processes at the local, regional and national level – including strategies and tools to facilitate success. Participants will learn about pan-Canadian, grass roots initiatives aimed at building capacity and supporting the uptake of incident investigation, reporting and learning.
Final assignment due

Participant Evaluation
All participants will complete the series of case-based assignments set for the course. Based on a sample case provided, the learners will complete the following:

- Categorize the sample case using the CPSI incident reporting framework and justify the decision (in class discussion, week 3)

- Classify the case-study using the NSIR-RT framework and justify decisions (in class discussion, week 5)
- Identify one likely recommendation arising from the incident investigation case study and describe how you would approach implementing the recommendation in your local centre (written paper, week 7)

Participants who receive a final "pass" in the course will receive a certificate of completion.

Cost
The course fee, due at registration is $150