ONCOLOGY GRAND ROUNDS
Physics Oncology Initiative
Tuesday, December 8, 2020

12:00pm to 1:00pm Via Webex Events
London Regional Cancer Program

"Quality Assurance Tools for 4D Radiation Therapy."

Dr. Rob Barnett, PhD.
Associate Professor, Dept. of Radiation Oncology, and Medical Biophysics, Schulich School of Medicine and Dentistry, Western U. Retired, Chief Physicist, London Regional Cancer Program, London Health Sciences Centre

Dr. Kevin Jordan, PhD.
Associate Professor, Dept. of Radiation Oncology, and Medical Biophysics, Schulich School of Medicine and Dentistry, Western U. Medical Physicist, London Regional Cancer Program, London Health Sciences Centre

- Understand unique challenges of accurately delivering a prescribed dose of therapeutic radiation to a moving tumor volume within a patient
- Gain an understanding of ‘integral dose’ applied to patient-specific breathing patterns and the potentially negative impact of motion on prescribed dose and dose to surrounding healthy tissue
- Gain an understanding of the practicality and accuracy of using radiochromic gels and optical CT for 3D and 4D radiation dosimetry
- Overview of performance of radiochromic gels and optical computed tomography for measuring 3D dose from small, moving radiation beams.

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