Target Insight, now in its 8th year has been a mechanism to present targeted information to the radiation oncology community. In the recent past, this included the best practice use of advanced technologies such as IMRT, VMAT, IGRT and brachytherapy. This year the University of Toronto, The Hospital for Sick Children, Odette Cancer Centre, and Princess Margaret Cancer Centre are partnering together to bring the topic of Particle Therapy to the forefront of discussion for Canadians. Studies have demonstrated the gains in this treatment include lower overall costs because of less treatment morbidity.

### Thursday, May 1

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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>7:30-8:30</td>
<td>Breakfast and Registration</td>
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| 8:30-9:00 | Welcome and Introductions - Doug Moseley & Lee Chin, Co-Chairs  
Dr. Fei-Fei Liu, Chair UT DRO  
Dr. Robert Bell, President & CEO, UHN  
Dr. Michael Sherar, CEO, CCO  
Dr. Michael Apkon, President & CEO  
The Hospital for Sick Children |
| 9:00-10:00 | Keynote Presentation – Stephen Hahn  
*History of Protons*  
• Statistics worldwide, number of facilities, number of patients treated etc.  
• Early technology to current  
• General sites  
• Canada’s contribution to particle therapy; Where are we internationally? |
| 10:00-10:30 | Coffee Break                                                                                   |
| 10:30-12:00| Session I: Technology Comparison – Doug Moseley and Young Lee  
History and transition between technologies, Type of Proton Accelerators, Gantry Head & Delivery, Vendor Specific Attributes |
| 12:00-1:00| Lunch Break                                                                                     |
| 1:00-2:00| Session II: Therapy – Stacey Schmidt  
Proton Radiation Safety Considerations, Patient Perspective on Proton Therapy Experience: Through the eyes of a therapist, Overview of a Typical Clinical Day in Proton Treatment Facility |
| 2:00-2:55| Session III: Proton Therapy & Research – Jean Philippe Pignol  
Challenges and Solutions of Proton Therapy & Emerging Research  
• Range uncertainty and impact on PTV margins  
• Proton radiography  
• In vivo PET imaging  
• What are the clinical questions and where are the trials |
| 2:55-3:25| Coffee Break                                                                                     |
| 3:25-4:00| Session IV: Clinical Experience and Treatment Sites I  
Pediatrics - Daniel Indelicato                                                                                           |
| 4:00-5:00| Pediatric Panel Case Discussion - Particle Therapy vs. Current Therapies (IMRT, VMAT, Brachytherapy, etc.)  
Moderator: David Malkin  
Anita Mahajan, Daniel Indelicato                                                                                     |

### Friday, May 2

<table>
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<tbody>
<tr>
<td>7:30-8:30</td>
<td>Breakfast</td>
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| 8:30-9:30 | Keynote Presentation - Wolfgang Sauerwein  
*Clinical Benefits of Particle Therapy*  
Moderator: Jean Philippe Pignol |
| 9:30-10:15 | Session V: Radiobiology Overview  
Bradly Wouters  
Moderator: Doug Moseley |
| 10:15-10:45 | Coffee Break                                                                                   |
| 10:45-12:00| Session VI: Clinical Experience & Treatment Sites II  
CNS – Anita Mahajan  
Ophthalmology – Tom Pickles  
30 min presentation, 7 min Q&A |
| 12:00-1:00 | Lunch Break                                                                                     |
| 1:00-2:30| Session VII: Obligation vs. Options for Proton Therapy  
Moderator: David Malkin  
Health Economics: Why We Want Protons in Ontario - Jeff Hoch  
Legal and Ethical Obligations - Randi Zlotnik Shaul |
| 2:30-3:00| Coffee Break                                                                                     |
| 3:00-4:15| Concluding Debate - How Does Proton Therapy Fit in Ontario/Canada  
Moderator: Ivo Olivotto and Jean Philippe Pignol  
Tom Pickles and Wolfgang Sauerwein |
| 4:15-4:30| Evaluation and Adjournment: Doug Moseley and Lee Chin with David Jaffray                                                                         |

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