

Image-Guided Radiation Therapy

Liver SBRT IGRT Education Course



putting innovation to work

April 5-7, 2018, Toronto, Canada



Radiation Oncology
UNIVERSITY OF TORONTO



Radiation Medicine Program
Princess Margaret Cancer Centre



UHN Princess
Margaret
Cancer Centre

Thursday, April 5, 2018

1:00 – 1:30 **Registration & Lunch** **1B Red Room**

1:30 – 1:40 **Welcome & Introductions**
Rebecca Wong

Session 1: Setting the Stage

1:40 – 2:00 **Introduction to Liver Cancer & The Course**

Laura Dawson MD

2:00 – 2:30 **Radiobiology of SBRT**

Marianne Koritzinsky PhD

2:30 – 2:35 **Discussion**

Session 2: Liver Imaging, Anatomy, Contouring & Function

2:35 – 3:00 **Radiation Induced Toxicities Following SBRT**

Laura Dawson MD

3:00 – 3:05 **Discussion**

3:05 – 3:30 **Hepatology 101: Liver Function**

Morven Cunningham MD

3:30 – 3:35 **Discussion**

3:35 – 3:50 **BREAK**

3:50 – 4:15 **Imaging for Liver Cancer**

Tae Kim MD

4:15 – 4:40 **Tumour, Target, OAR Contouring Principles for Liver & Bile Duct**

Laura Dawson MD, Edgar Ben Josef MD, Tae Kim MD

4:40 – 6:10 **Contouring & Fusion Exercises**

2B Skills Lab

Laura Dawson MD, Edgar Ben Josef MD, Pablo Munoz MD, Alana Pellizzari MRT(T), Grace Wu MRT(T), Andrea Shessel MRT(T), Anita Vloet MRT(T), Tae Kim MD, Teo Stanescu PhD, Mike Velec MRT(T) PhD

6:10 **End of Day**

6:30 **Social Gathering**

Prenup Pub
191 College St (2nd Floor)

Friday, April 6, 2018

8:30 – 9:00 **Course Breakfast & Sign In** **1B Red Room**

Session 3: Rationale for IGRT for Liver RT

9:00 – 9:20 **Hepatocellular Carcinoma**
Laura Dawson MD

9:20 – 9:40 **Biliary Cancer**
Edgar Ben Josef MD

9:40 – 10:00 **Oligometastases**
Rebecca Wong MD

10:00 – 10:15 **Discussion**

10:15 – 10:30 **BREAK**

10:30 – 10:50 **Contemporary & Future Tools for Image Guidance**
Jean-Pierre Bissonnette PhD

10:50 – 11:15 **Motion Management**
Teo Stanescu PhD

11:15 – 11:45 **Image Registration & Demonstration**
Michael Velec MRT(T) PhD

11:45 – 11:50 **Discussion**

11:50 – 12:30 **Keynote Address**
Liver Cancer: When to Use Protons? (Webinar)
Edgar Ben Josef MD

12:30 – 12:40 **Discussion**

12:40 – 1:30 **LUNCH** **1B Red Room**

Session 4: Liver RT Simulation, Planning & Treatment

1:30 – 1:50 **Practical Simulation - Princess Margaret Approach**
Anita Vloet MRT(T), Laura Dawson MD

1:50 – 2:15 **PTV Margin Design**
Tim Craig PhD

2:15 – 2:45 **Individualized Dose Allocation, Liver V_{eff} & NTCP**
Tim Craig PhD

2:45 - 3:00 **Discussion**

3:00 – 3:15 **BREAK**

3:15 – 4:10 **Interactive Demonstration: Liver Treatment Planning**
Alana Pellizzari MRT(T), Grace Wu MRT(T)
Discussants: Tim Craig PhD, Laura Dawson MD, Edgar Ben Josef MD, Teo Stanescu PhD

4:10 – 4:50 **Practical Liver IGRT: CBCT**
Laura Dawson MD, Jasmine Chen MRT(T), Teodor Stanescu PhD

4:50 – 5:10 **Practical Liver RT @ UPenn**
Edgar Ben Josef MD

5:10 – 5:25 **Discussion**

6:00 PM **Dinner - "To the Next Fifty"** **Adega Restaurant**
33 Elm St.

Saturday, April 7, 2018

9:10 – 9:40 **Breakfast & Sign In** **1B Red Room**

Session 5: Trials & Case Examples

9:40 – 10:00 **SBRT & Immunotherapy Trials in Liver Cancer**
Edgar Ben Josef MD

10:00 – 10:10 **Discussion**

10:10 – 10:30 **Liver PET-MRI**
Patrick Veit-Haibach MD

10:30 – 10:40 **Discussion**

10:40 – 11:30 **Liver Case-based Discussion**
Laura Dawson MD, Pablo Munoz MD, Alana Pellizzari MRT(T), Tim Craig PhD, Edgar Ben Josef MD, Jasmine Chen MRT(T)

11:30 – 11:45 **BREAK**

11:45 – 12:25 **Clinical Trials in Liver RT – Past, Present, Future**
Edgar Ben Josef MD, Laura Dawson MD

12:25 – 12:45 **Liver RT Credentialing**
Tim Craig PhD

12:45 – 12:55 **Discussion**

1:00 – 1:45 **LUNCH & Tour of MRgRT Suite** **1B Red Room**
Teodor Stanescu PhD

Session 6: Demonstrations & Practical Exercises

1:45 – 3:15 **Patient Setup Demonstration** **1B Red Room**
Alana Pellizzari MRT(T), Grace Wu MRT(T), Anita Vloet MRT(T)

AND Matching Exercise **2B Skills Lab**
Nathan Becker PhD, Jasmine Chen MRT(T)

Session 7: Future of IGRT

3:20 – 3:50 **Dose Accumulation in Liver SBRT**
Mike Velec MRT(T) PhD

3:50 – 4:10 **MRgRT for Liver & Its Impact on Workflow**
Teodor Stanescu PhD

4:10 – 4:30 **Yttrium-90 for Liver Cancer**
Navesh Sharma MD

4:30 – 4:45 **Discussion**

4:45 – 5:30 **Fireside Chat - Stories from the Trenches**
Laura Dawson MD, Teo Stanescu PhD, Pablo Munoz MD

5:30 – 5:40 **Wrap Up & Evaluation**