

ADAPTIVE RADIATION THERAPY (ART) EDUCATION COURSE

SAMPLE PROGRAM ITINERARY

Princess Margaret Cancer Centre, Toronto ON
October 15-17, 2026
Red Room, Floor 1B, Room 615

THURSDAY, OCTOBER 15, 2026

AFTERNOON

Session 1: Rationale and Clinical Motivation for ART

1. Rationale and history of ART (e.g., geometric / dosimetric) (30 mins)
2. Clinical Evidence for Online ART/ How ART is changing clinical care (30 mins)
3. Patient Selection (30 mins)
4. Approaches to Adaptive Radiotherapy: Next-Day Adaptive, Online and Simulation-Free (20 mins)
5. From IGRT to ART: Evolving the Planning Process and Rethinking volumes and margins (20 mins)

Session 2: Technology that makes ART possible

1. Online adaptive radiotherapy platforms (25 mins)
2. Imaging in Adaptive Radiotherapy: HyperSight, Multimodality, and Functional Approaches (25 mins)
3. Opportunities and Challenges in Automatic Contouring and Planning (25 mins)
4. Keynote address: topic TBD (45 mins)

FRIDAY, OCTOBER 16, 2026

MORNING

Session 3: Building an ART Program

1. Adaptive Planning workflow (30 mins)
2. Implications of moving to ART (30 mins)
3. Team Building and Workflow Design for Adaptive Radiotherapy Implementation (30 mins)
4. RTT centric workflow and training (example of bladder), essentials of IPP (30 mins)

Session 4: Technical Considerations

1. Imaging considerations- MRL and ethos (30 mins)
2. Motion Management (30 mins)

AFTERNOON

Session 5: Practical Considerations

1. Perspectives from the front line- including RO, MP, Planner, and RTT (75 mins)

Session 6: Disease Site Examples

1. Upper GI (25 mins)
2. Oligometas (25 mins)
3. GU incl. prostate, bladder, kidney (25 mins)
4. Head and Neck (25 mins)
5. Gynae (25 mins)
6. Palliative- Sim Free (25 mins)

END OF DAY- COURSE DINNER

SATURDAY, OCTOBER 17, 2026

MORNING

Session 7: Practical Hands-On

1. Emulator session (25 min/site)
2. Monaco ART session (25 min/site)
3. Safety and Quality Considerations for ART (45 mins)

AFTERNOON

Session 8: Break-Out Groups

Groupings (all 45 mins each):

1. Radiation Oncology - Online contouring and plan evaluation, review clinical cases
2. Medical Physics - ART commissioning, Quality Control, Dose monitoring, plan summation, Motion management (Identify, C-Rad, CMM etc)
3. Radiation Therapy - Motion Management, workflow design, workflow demonstrations

Session 9: Looking Ahead- Current ART Research

1. Various presentations- topics TBA (75 mins)
2. Course Wrap-Up (60 mins)