

## **SCHEDULE 9 – DIAGNOSTIC MEDICAL EQUIPMENT (DME) REPLACEMENT PROGRAM**

### **PART A – PROGRAM DESCRIPTION**

The Diagnostic and Medical Equipment (DME) one-time funding supports the replacement and upgrades of radiation therapy equipment and related system replacement/upgrades across Ontario's Integrated Cancer Programs (ICPs); formerly called "regional cancer centres" by Cancer Care Ontario (CCO). The age and technical limitations of older treatment equipment restrict both the kinds of cases that can be treated as well as operating capacity. Radiation equipment replaced/upgraded through this grant will be specific to the treatment of cancer patients and will not include equipment to establish new cancer treatment services.

Eligible equipment (descriptions can be found at the end of this schedule) may include radiation therapy delivery systems, treatment planning systems and radiation oncology information systems at ICPs receiving funds through CCO, including the University Health Network's Princess Margaret Hospital. Note, University Health Network's Princess Margaret Hospital was fully integrated into the provincial Radiation Equipment Replacement Funding process in 2017/18 following a 5-year transition plan.

Treatment planning systems and radiation oncology information systems may include only hardware (computers, servers, routers and cabling backbone), software, and licenses which are directly related to the installation and management of these systems.

The equipment to be replaced or upgraded is the result of a prioritization exercise undertaken by CCO and approved by the Ministry of Health (MOH).

The 2019-20 capital funding and approval will address priority radiation therapy equipment replacement/upgrades at Ontario's ICPs consistent with Cabinet's 2019-20 allocation decisions providing an appropriation of \$34.5M under the Province's Health Capital Program, Medical and Diagnostic Equipment sub-account.

#### **MOH Roles/Responsibilities**

- (a) Provide any necessary instructions, materials, templates, forms, and guidelines to CCO to assist with the completion of the reports listed in this Schedule.
- (b) As required, develop reporting requirements relating to government priorities and notify CCO of the requirements.

#### **CCO Roles/Responsibilities**

- (a) Provide the MOH with a list of Priority A and Priority B equipment items for replacement. Priority A equipment will be purchased first. Priority B equipment will only be purchased in the event that:
  - a. an item from Priority A list is not procurable for any reason; or
  - b. cost savings have been realized from the Priority A list; or
  - c. additional funds become available during the fiscal year.
- (b) Submit to the MOH all reports and integrated reports as outlined in the reports section of this schedule to the recipient specified by the due date specified.
- (c) Ensure all reports are completed to the satisfaction of the MOH.

(d) Submit to the MOH an attestation that all reporting is complete, correct, and agrees with the audited financial statements of CCO

**PART B – FINANCIAL/PERFORMANCE AND REPORTING OBLIGATIONS**

Dedicated Funding Envelopes	Funding Branch/Division	TP Parent/Cost Centre
DME Replacement Program – DFE1	Health Capital Investment Branch, Capacity Planning and Capital Division	Vote 1407-01, Cost Center: 514881

Division, Branch	Activities	2018-19 Opening Base	2018-19 One-Time	2019-20 Opening Base	2019-20 Incremental Base	2019-20 One-Time	2019-20 Total Allocation	2019/20 Deliverables	2018-19 Deliverables
		A	B	C	D	E	F = (C+D+E)		
Capacity Planning and Capital Division, Health Capital Investment Branch (HCIB)	DME Replacement Program	\$0	\$34,500,000	\$0	\$0	\$34,500,000	\$34,500,000		Replace/Upgrade aging radiation treatment devices as per priorities established by CCO and approved by MOH
	<b>Fiscal Grand Total</b>	\$0	\$34,500,000	\$0	\$0	\$34,500,000	\$34,500,000		
	<b>Grand Total Rounded</b>	\$0	\$34,500,000	\$0	\$0	\$34,500,000	\$34,500,000		

**Deliverables:**

- All eligible equipment must be purchased and ownership transferred on or before March 31, 2020.

**Eligibility Criteria:**

- Costs may include non-refundable HST and direct installation costs for approved equipment identified in Priority A and/or B;
- Costs for equipment purchased must be supported by proof of invoices and proof of ownership before the end of the fiscal year for which funding was received, which will be submitted to the MOH and verified, if requested, through independent audit;
- Costs that are directly related to installation of the approved equipment (including necessary shielding upgrades to comply with the replacement equipment requirements), the removal of the existing equipment, the integration and connectivity of the equipment, and commissioning the replacement unit(s) may be included; and,
- Training costs related to the acquisition of the approved item may also be included.

**Costs, which will not be funded, include:**

- Costs for equipment other than those identified by CCO and approved by the MOH each year;
- Costs for equipment for which any portion of the cost is eligible for, or has been, funded through any alternative funding source including, but not limited to, a separate MOH grant, or costs for equipment items procured through a lease arrangement;
- Staff or consultation fees associated with the purchase of the replacement item. This includes consultation fees incurred while choosing equipment or designing its installation and the cost of staff employed to install/program integration systems;

- Costs for equipment items that do not directly relate to cancer treatment (e.g., administration offices, business systems, loose furnishings and equipment unrelated to radiation services); and,
- Operational expense items (supplies or consumables).

## PART C – REPORTING FORMAT

CCO is to provide the MOH with a final report before May 31, 2020, outlining equipment purchased as per the agreed budget. The final report must be supported by proof of invoices and ownership of equipment by CCO on or before March 31, 2020.

## PART D – PAYMENT SCHEDULE

Description of Funding	Year 2019-20 Funding Amount	Expected Payment Date	Expected Payment Amount
One-time	\$34.5 million	Before March 31, 2020	\$34.5 million

## PART E – RADIATION THERAPY TREATMENT SYSTEM AND EQUIPMENT DESCRIPTIONS

### Cancer Care Ontario Capital Equipment List

#### Radiation Therapy Delivery Systems

Superficial / orthovoltage machine	<ul style="list-style-type: none"> <li>• Superficial and/or orthovoltage machines use electricity to generate kilovoltage x-rays which are used for skin therapy or sub-dermal treatment to bones etc.</li> </ul>
Standard Linear Accelerators	<ul style="list-style-type: none"> <li>• A standard linear accelerator is typically an isocentrally-mounted megavoltage machine which produces high energy x-rays and electrons for a wide variety of treatment techniques</li> </ul>
Specialized High Energy Treatment Machines	<ul style="list-style-type: none"> <li>• Specialized high energy treatment machines are capable of delivering high energy x-rays, electrons and/or gamma rays, but do not share the general characteristics of a standard linear accelerator</li> <li>• These machines feature advanced collimations systems and provide image guidance or other patient positioning technologies for the delivery of complex treatment techniques</li> </ul>
High Dose Rate Brachytherapy machines: HDR	<ul style="list-style-type: none"> <li>• A computerized radiation treatment system that houses a “stepping” iridium or other radioactive source, used for placement of radiation directly within the body via needles or catheters</li> </ul>

### Treatment Planning Systems

Computed Tomography Simulators: CTSimulators	<ul style="list-style-type: none"><li>• An x-ray imaging machine that takes cross sectional images for radiation treatment planning and patient positioning only. These images are not used for patient/disease diagnosis</li></ul>
Conventional Simulators	<ul style="list-style-type: none"><li>• A machine that uses x-rays or another applied energy for taking 2D or 3D images for radiation treatment planning and patient positioning only. These images are not used for patient/disease diagnosis</li></ul>
Treatment Planning Systems: TPS	<ul style="list-style-type: none"><li>• Specialty software used exclusively for fast, complex graphical and dosimetric treatment planning for radiation therapy</li></ul>
Magnetic Resonance Imaging Simulators: MRSimulators	<ul style="list-style-type: none"><li>• An MRSimulator uses a powerful magnetic field, radio frequency pulses and a computer to produce detailed images of organs, soft tissues, bone and other structures for treatment planning purposes only, usually in combination with images from a CTSimulator. These images are not used for patient/disease diagnosis</li></ul>

### Radiation Oncology Information Systems

Radiation Oncology Information Systems (ROIS)	<ul style="list-style-type: none"><li>• Employ integrated functional software and hardware components - used in conjunction with the hospital electronic medical record - to plan for and treat patients with radiation</li></ul>
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