

Medical Imaging in Canada 2017: Provincial Summary for the Yukon

CADTH's Canadian Medical Imaging Inventory collects data on medical imaging equipment across Canada. The national results are published in a comprehensive report (cadth.ca/imaginginventory). This summary consolidates Yukon's data from the report. If additional information on the technical characteristics of imaging equipment is required, please send a request to requests@cadth.ca.

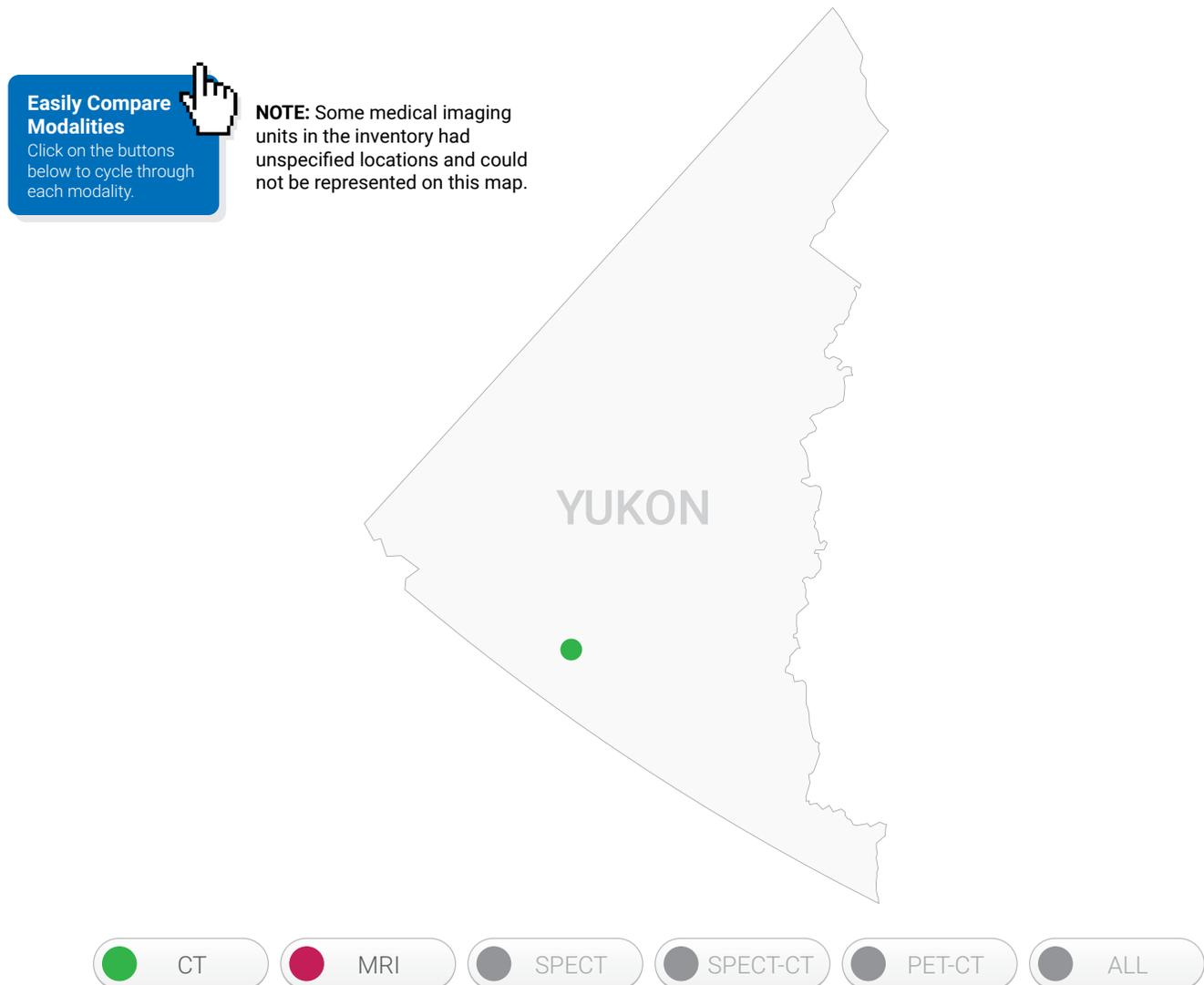


Table 1: Imaging Units in the Yukon

	CT	MRI	PET/CT	SPECT	SPECT/CT
Number of imaging units out of national total 2017	1/561	1/366	0/51	0/330	0/261
Number of imaging units out of national total 2007 ^a	1/419	0/222	0/31	0/603 ^b	0/35
Units per million population 2017	26.4	26.4	0	0	0
Mobile equipment	0	0	0	0	0

CT = computed tomography; MRI = magnetic resonance imaging; PET = positron emission tomography; SPECT = single-photon emission computed tomography.

^a Canadian Institute for Health Information, *Medical Imaging in Canada, 2007* (Ottawa, Ont.: CIHI, 2008).

^b For all nuclear medicine.

Table 2: Operation and Age of Medical Imaging Units in the Yukon

	CT	MRI	PET/CT	SPECT	SPECT/CT
Total Publicly Funded Exams in the Yukon					
Exams per year out of national imputed total for 2017	3,500	2,200	0	0	0
Exams per 1,000 people	92.6	58.2	0	0	0
Hours of Operation in Yukon Facilities					
Average hours of operation per week	40	40	0	0	0
Number of machines in operation 24 hours a day	0	0	0	0	0
Number of machines in operation on the weekend	1	0	0	0	0
Average Age of Units in Canada					
Average age of units (years)	7.2	7.6	7.7	11.5	6.3
Age of oldest unit (years)	20	19	12	30	17
Age of newest unit (years)	0	0	2	0	0

CT = computed tomography; MRI = magnetic resonance imaging; PET = positron emission tomography; SPECT = single-photon emission computed tomography.

The Yukon has one computed tomography (CT) unit, which is a 128-slice CT unit located at the Whitehorse General Hospital in Whitehorse. This CT unit, was installed in 2012, provides services both during the week and on the weekend. There is one magnetic resonance imaging (MRI) unit (1.5 Tesla) available in the territory, which is also located at the Whitehorse General Hospital. This MRI unit has been in operation since 2015. The Yukon does not have any positron emission tomography (PET)/CT, single-photon emission computed tomography (SPECT), or SPECT/CT units currently in commission.

Data Limitations

Data were imputed for a limited number of missing values if no response was obtained. In particular, if the questions regarding the mobility of imaging equipment or weekend and 24-hour availability were left blank, the answer was assumed to be no. Technical information, including the age of machines, was incomplete for some sites. If the age of equipment was not available, it was excluded from the calculation of averages. Out-of-range values for the number of hours of operation per week (more than 168 hours) were set to missing.

By preference, examination data supplied by the validators was reported. If we did not have validator data for a given province or territory, then data from the survey was used. Not all

sites reported examination data. Where sites with available unit counts were missing data for the total number of examinations for 2017, we imputed the missing data. These imputed values were gathered by calculating the mean number of exams per unit for sites that reported examination data, and then using this mean to impute the total number of exams for the remaining units. The total number of exams for each province or territory was the sum of the exams reported and exams imputed.

Additional details on the methodology used for the collection and imputation of this data are available in the 2017 Canadian Medical Imaging Inventory report.

Questions or comments about CADTH or this tool?



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