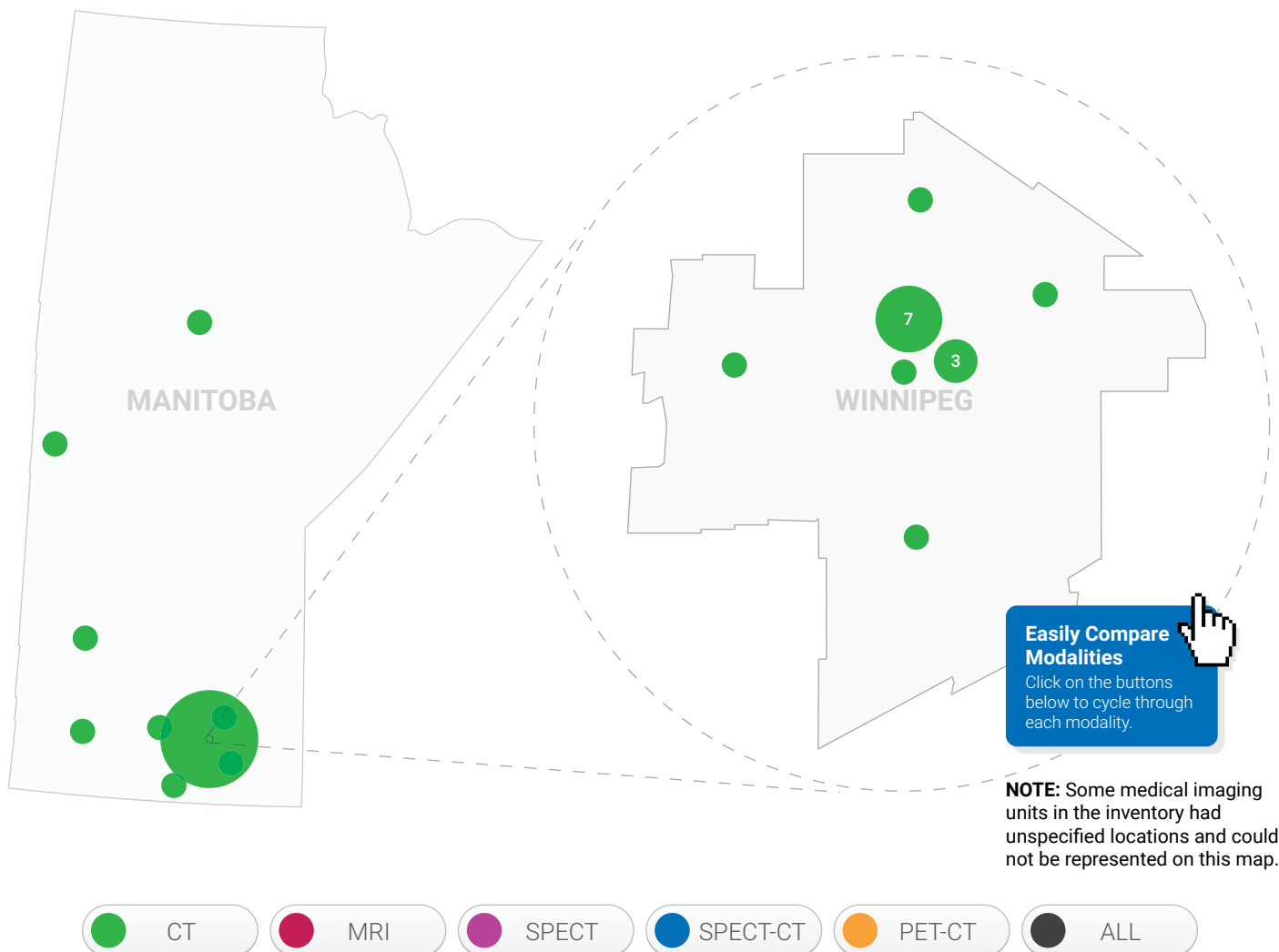


Medical Imaging in Canada 2017: Provincial Summary for Manitoba

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 provincial summary consolidates Manitoba'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.



Easily Compare Modalities
Click on the buttons below to cycle through each modality.

NOTE: Some medical imaging units in the inventory had unspecified locations and could not be represented on this map.

- CT
- MRI
- SPECT
- SPECT-CT
- PET-CT
- ALL

Table 1: Imaging Units in Manitoba

	CT	MRI	PET/CT	SPECT	SPECT/CT
Number of imaging units out of national total 2017	23/561	12/366	1/51	9/330	8/261
Number of imaging units out of national total 2007 ^a	19/419	8/222	1/31	16/603 ^b	0/35
Units per million population 2017	17.3	9.0	0.8	6.8	6.0
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 Manitoba

	CT	MRI	PET/CT	SPECT	SPECT/CT
Total Publicly Funded Exams in Manitoba					
Exams per year out of national imputed total for 2017	186,197	77,735	2,009	11,120	10,954
Exams per 1,000 people	139.7	58.3	1.5	8.4	8.2
Hours of Operation in Manitoba Facilities					
Average hours of operation per week	80.1	93.5	40	42.2	42.2
Number of machines in operation 24 hours a day	3	0	0	0	0
Number of machines in operation on the weekend	10	6	0	1	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.

Manitoba has 23 computed tomography (CT) units, one of which is a 256 slice unit (located at Grace Hospital in Winnipeg). At least 10 sites across the province provide weekend access to CT, including three sites that are open 24 hours a day. There are 12 magnetic resonance imaging (MRI) units in Manitoba, compared to eight that were available in 2007. Access to MRI on the weekend is provided by at least six facilities. Manitoba has one PET/CT unit, which is located at the Health Sciences Centre –Winnipeg. There are a total of nine single-photon emission computed tomography (SPECT) units and eight SPECT/CT units available throughout Manitoba, compared to 16 and 0, respectively, in 2007.

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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cadth.ca/imaginginventory



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