

Medical Imaging in Canada 2017: Provincial Summary for the Northwest Territories

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



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

Table 1: Imaging Units in the Northwest Territories

| | CT | MRI | PET/CT | SPECT | SPECT/CT |
|---|-------|-------|--------|--------------------|----------|
| Number of imaging units out of national total 2017 | 1/561 | 0/366 | 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 | 22.5 | 0 | 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 Northwest Territories

| | CT | MRI | PET/CT | SPECT | SPECT/CT |
|---|-------|-----|--------|-------|----------|
| Total Publicly Funded Exams in the Northwest Territories | | | | | |
| Exams per year out of national imputed total for 2017 | 4,695 | 0 | 0 | 0 | 0 |
| Exams per 1,000 people | 105.6 | 0 | 0 | 0 | 0 |
| Hours of Operation in Northwest Territories Facilities | | | | | |
| Average hours of operation per week | 47.0 | 0 | 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 Northwest Territories has one 160-slice computed tomography (CT) unit located at the Stanton Territorial Hospital in Yellowknife that is in operation on the weekend. The Northwest Territories does not have any magnetic resonance imaging (MRI), 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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