



Retaining Canada's Healthcare Workforce

Data Availability and Bibliography



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Data availability

Legend

✓ Available ✕ Not available * Includes data limitations; refer to the notes below the table

Physicians

The list below outlines data availability by province and health region. Data availability may vary by year.

Workforce counts

Indicator	Provincial	Regional
Family physicians (all)	✓	✓
Family physicians (domestically trained)	✓	✓
Family physicians (internationally trained)	✓	✓
Specialists (all)	✓*	✓*
Specialists (domestically trained)	✕	✕
Specialists (internationally trained)	✕	✕

Source: Signal49 Research.

*Data limitations: territorial data is not available for specialists (all).

Intra-provincial migration

Indicator	Provincial	Regional
Family physicians (all)	✕	✕
Family physicians (domestically trained)	✕	✕
Family physicians (internationally trained)	✕	✕
Specialists (all)	✕	✕
Specialists (domestically trained)	✕	✕
Specialists (internationally trained)	✕	✕

Source: Signal49 Research.



Interprovincial migration

Indicator	Provincial	Regional
Family physicians (all)	✓	×
Family physicians (domestically trained)	×	×
Family physicians (internationally trained)	×	×
Specialists (all)	✓	×
Specialists (domestically trained)	×	×
Specialists (internationally trained)	×	×

Source: Signal49 Research.

Outmigration

Indicator	Provincial	Regional
Family physicians (all)	✓	✓
Family physicians (domestically trained)	×	×
Family physicians (internationally trained)	×	×
Specialists (all)	✓	✓
Specialists (domestically trained)	×	×
Specialists (internationally trained)	×	×

Source: Signal49 Research.



Nurses

The list below outlines data availability by province and health region. Data availability may vary by year.

Legend		
✓	✗ Not	
Available	available	* Includes data limitations; refer to the notes below the table

Workforce counts

Indicator	Provincial	Regional
Nurse practitioners (all)	✓*	✓*
Nurse practitioners (domestically trained)	✓*	✗
Nurse practitioners (internationally trained)	✓*	✗
Registered nurses (all)	✓*	✓*
Registered nurses (domestically trained)	✓*	✗
Registered nurses (internationally trained)	✓*	✗
Licensed practical nurses (all)	✓*	✓*
Licensed practical nurses (domestically trained)	✓*	✓*
Licensed practical nurses (internationally trained)	✓*	✗
Registered psychiatric nurses (all)	✓	✓
Registered psychiatric nurses (domestically trained)	✓*	✗
Registered psychiatric nurses (internationally trained)	✓*	✗

Source: Signal49 Research.

*Data limitations:

- Nurse practitioners (all) does not include Manitoba, Northwest Territories, or Yukon.
- Nurse practitioners (domestically and internally trained) does not include Northwest Territories or Yukon.
- Registered nurses (all) does not include Manitoba, Northwest Territories, or Yukon.
- Registered nurses (domestically and internally trained) does not include Northwest Territories or Yukon.
- Licensed practical nurses (all) does not include Nunavut or Yukon.



- Licensed practical nurses (domestically trained) provincial data does not include Nunavut or Yukon.
- Licensed practical nurses (domestically trained) regional data only includes Quebec data for 2024 and 2025.
- Licensed practical nurses (internationally trained) does not include any territorial data.
- Registered psychiatric nurses (domestically and internally trained) does not include British Columbia.

Intra-provincial migration

Indicator	Provincial	Regional
Nurse practitioners (all)	×	×
Nurse practitioners (domestically trained)	×	×
Nurse practitioners (internationally trained)	×	×
Registered nurses (all)	×	×
Registered nurses (domestically trained)	×	×
Registered nurses (internationally trained)	×	×
Licensed practical nurses (all)	×	×
Licensed practical nurses (domestically trained)	×	×
Licensed practical nurses (internationally trained)	×	×
Registered psychiatric nurses (all)	×	×
Registered psychiatric nurses (domestically trained)	×	×
Registered psychiatric nurses (internationally trained)	×	×

Source: Signal49 Research.



Interprovincial migration

Indicator	Provincial	Regional
Nurse practitioners (all)	×	×
Nurse practitioners (domestically trained)	×	×
Nurse practitioners (internationally trained)	×	×
Registered nurses (all)	×	×
Registered nurses (domestically trained)	×	×
Registered nurses (internationally trained)	×	×
Licensed practical nurses (all)	×	×
Licensed practical nurses (domestically trained)	√*	√*
Licensed practical nurses (internationally trained)	×	×
Registered psychiatric nurses (all)	√*	×
Registered psychiatric nurses (domestically trained)	×	×
Registered psychiatric nurses (internationally trained)	×	×

Source: Signal49 Research.

*Data limitations:

- Licensed practical nurses (domestically trained) regional data from Quebec is for 2024 and 2025 only.
- Registered psychiatric nurses (all) data from Saskatchewan is for 2024 and 2025 only.



Outmigration

Indicator	Provincial	Regional
Nurse practitioners (all)	×	×
Nurse practitioners (domestically trained)	×	×
Nurse practitioners (internationally trained)	×	×
Registered nurses (all)	×	×
Registered nurses (domestically trained)	×	×
Registered nurses (internationally trained)	×	×
Licensed practical nurses (all)	×	×
Licensed practical nurses (domestically trained)	×	×
Licensed practical nurses (internationally trained)	×	×
Registered psychiatric nurses (all)	×	×
Registered psychiatric nurses (domestically trained)	×	×
Registered psychiatric nurses (internationally trained)	×	×

Source: Signal49 Research.



Dentists

The list below outlines data availability by province and health region. Data availability may vary by year.

Legend		
✓	✗ Not	
Available	available	* Includes data limitations; refer to the notes below the table

Workforce counts

Indicator	Provincial	Regional
Dentists (all)	✓	✗
Dentists (domestically trained)	✗	✗
Dentists (internationally trained)	✗	✗

Source: Signal49 Research.

Intra-provincial migration

Indicator	Provincial	Regional
Dentists (all)	✗	✗
Dentists (domestically trained)	✗	✗
Dentists (internationally trained)	✗	✗

Source: Signal49 Research.

Interprovincial migration

Indicator	Provincial	Regional
Dentists (all)	✗	✗
Dentists (domestically trained)	✗	✗
Dentists (internationally trained)	✗	✗

Source: Signal49 Research.



Outmigration

Indicator	Provincial	Regional
Dentists (all)	×	×
Dentists (domestically trained)	×	×
Dentists (internationally trained)	×	×

Source: Signal49 Research.

Pharmacists

The list below outlines data availability by province and health region. Data availability may vary by year.

Legend		
✓	×	Not available
Available		* Includes data limitations; refer to the notes below the table

Workforce counts

Indicator	Provincial	Regional
Pharmacists (all)	✓*	✓*
Pharmacists (domestically trained)	✓*	×
Pharmacists (internationally trained)	✓*	✓*

Source: Signal49 Research.

*Data limitations:

- Pharmacists (all) provincial and regional data does not include Quebec, Yukon, or Nunavut.
- Pharmacists (domestically and internationally trained) provincial data does not include Quebec, Yukon, or Nunavut.
- Pharmacists (internationally trained) includes regional data from Alberta for 2023 and 2024 only.



Intra-provincial migration

Indicator	Provincial	Regional
Pharmacists (all)	✓*	✓*
Pharmacists (domestically trained)	×	×
Pharmacists (internationally trained)	×	×

Source: Signal49 Research.

*Data limitations:

- Pharmacists (all) includes provincial and regional data from Alberta for 2023 and 2024 only.

Interprovincial migration

Indicator	Provincial	Regional
Pharmacists (all)	✓*	✓*
Pharmacists (domestically trained)	×	×
Pharmacists (internationally trained)	×	×

Source: Signal49 Research.

*Data limitations:

- Pharmacists (all) includes provincial and regional data from Alberta for 2023 and 2024 only.

Outmigration

Indicator	Provincial	Regional
Pharmacists (all)	×	×
Pharmacists (domestically trained)	×	×
Pharmacists (internationally trained)	×	×

Source: Signal49 Research.



Physiotherapists

The list below outlines data availability by province and health region. Data availability may vary by year.

Legend		
✓	✗ Not	
Available	available	* Includes data limitations; refer to the notes below the table

Workforce counts

Indicator	Provincial	Regional
Physiotherapists (all)	✓*	✓*
Physiotherapists (domestically trained)	✓*	✗
Physiotherapists (internationally trained)	✓*	✗

Source: Signal49 Research.

*Data limitations:

- Physiotherapists (all) provincial and regional data does not include Quebec, Prince Edward Island, or the territories.
- Physiotherapists (domestically and internationally trained) provincial data does not include the territories.

Intra-provincial migration

Indicator	Provincial	Regional
Physiotherapists (all)	✗	✗
Physiotherapists (domestically trained)	✗	✗
Physiotherapists (internationally trained)	✗	✗

Source: Signal49 Research.

Interprovincial migration

Indicator	Provincial	Regional
Physiotherapists (all)	✗	✗
Physiotherapists (domestically trained)	✗	✗
Physiotherapists (internationally trained)	✗	✗

Source: Signal49 Research.



Outmigration

Indicator	Provincial	Regional
Physiotherapists (all)	×	×
Physiotherapists (domestically trained)	×	×
Physiotherapists (internationally trained)	×	×

Source: Signal49 Research.

Occupational therapists

The list below outlines data availability by province and health region. Data availability may vary by year.

Legend		
✓	×	Not available
Available	available	* Includes data limitations; refer to the notes below the table

Workforce counts

Indicator	Provincial	Regional
Occupational therapists (all)	✓*	✓*
Occupational therapists (domestically trained)	✓	×
Occupational therapists (internationally trained)	✓	×

Source: Signal49 Research.

*Data limitations:

- Occupational therapists (all) provincial and regional data does not include Quebec.

Intra-provincial migration

Indicator	Provincial	Regional
Occupational therapists (all)	×	×
Occupational therapists (domestically trained)	×	×
Occupational therapists (internationally trained)	×	×

Source: Signal49 Research.



Interprovincial migration

Indicator	Provincial	Regional
Occupational therapists (all)	×	×
Occupational therapists (domestically trained)	×	×
Occupational therapists (internationally trained)	×	×

Source: Signal49 Research.

Outmigration

Indicator	Provincial	Regional
Occupational therapists (all)	×	×
Occupational therapists (domestically trained)	×	×
Occupational therapists (internationally trained)	×	×

Source: Signal49 Research.

Medical radiation technologists

The list below outlines data availability by province and health region. Data availability may vary by year.

Legend

✓ Available × Not available * Includes data limitations; refer to the notes below the table

Workforce counts

Indicator	Provincial	Regional
Radiological technologists (all)	✓*	✓*
Radiological technologists (domestically trained)	✓*	✓*
Radiological technologists (internationally trained)	✓*	✓*
Radiation therapists (all)	✓*	✓*
Radiation therapists (domestically trained)	✓*	✓*
Radiation therapists (internationally trained)	✓*	✓*
Magnetic resonance technologists (all)	✓*	✓*



Magnetic resonance technologists (domestically trained)	√*	√*
Magnetic resonance technologists (internationally trained)	√*	√*
Nuclear medicine technologists (all)	√*	√*
Nuclear medicine technologists (domestically trained)	√*	√*
Nuclear medicine technologists (internationally trained)	√*	√*
Diagnostic medical sonographers (all)	√*	√*
Diagnostic medical sonographers (domestically trained)	√*	√*
Diagnostic medical sonographers (internationally trained)	√*	√*

Source: Signal49 Research.

*Data limitations:

- Radiological technologists (all), radiation therapists (all), nuclear medicine technologists (all), and magnetic resonance technologists (all) provincial and regional data is available from Alberta for 2023 and 2024 only.
- Radiological technologists (all), radiation therapists (all), nuclear medicine technologists (all), and diagnostic medical sonographers (all) provincial and regional data is available from Quebec for 2022 and 2025 only.
- Radiological technologists (internationally trained), radiation therapists (internationally trained), nuclear medicine technologists (internationally trained), and magnetic resonance technologists (internationally trained) provincial and regional data is available from Alberta for 2023 and 2024 only.
- Radiological technologists (internationally trained), radiation therapists (internationally trained), and magnetic resonance technologists (internationally trained) provincial and regional data is available from Manitoba for 2023 only.
- Radiological technologists (internationally trained), radiation therapists (internationally trained), nuclear medicine technologists (internationally trained), and diagnostic medical sonographers (internationally trained) provincial and regional data is available from Quebec for 2022 and 2025 only.



Intra-provincial migration

Indicator	Provincial	Regional
Radiological technologists (all)	×	×
Radiological technologists (domestically trained)	×	×
Radiological technologists (internationally trained)	×	×
Radiation therapists (all)	×	×
Radiation therapists (domestically trained)	×	×
Radiation therapists (internationally trained)	×	×
Magnetic resonance technologists (all)	×	×
Magnetic resonance technologists (domestically trained)	×	×
Magnetic resonance technologists (internationally trained)	×	×
Nuclear medicine technologists (all)	×	×
Nuclear medicine technologists (domestically trained)	×	×
Nuclear medicine technologists (internationally trained)	×	×
Diagnostic medical sonographers (all)	×	×
Diagnostic medical sonographers (domestically trained)	×	×
Diagnostic medical sonographers (internationally trained)	×	×

Source: Signal49 Research.



Interprovincial migration

Indicator	Provincial	Regional
Radiological technologists (all)	√*	×
Radiological technologists (domestically trained)	√*	×
Radiological technologists (internationally trained)	×	×
Radiation therapists (all)	√*	×
Radiation therapists (domestically trained)	√*	×
Radiation therapists (internationally trained)	×	×
Magnetic resonance technologists (all)	√*	×
Magnetic resonance technologists (domestically trained)	√*	×
Magnetic resonance technologists (internationally trained)	×	×
Nuclear medicine technologists (all)	√*	×
Nuclear medicine technologists (domestically trained)	√*	×
Nuclear medicine technologists (internationally trained)	×	×
Diagnostic medical sonographers (all)	√*	×
Diagnostic medical sonographers (domestically trained)	×	×
Diagnostic medical sonographers (internationally trained)	×	×

Source: Signal49 Research.

Data limitations:

- Radiological technologists (all), radiation therapists (all), nuclear medicine technologists (all), magnetic resonance technologists (all), and diagnostic medical sonographers (all) provincial data from Ontario is available for 2023 and 2024 only.
- Radiological technologists (domestically trained), radiation therapists (domestically trained), nuclear medicine technologists (domestically trained), and medicine magnetic resonance technologists (domestically trained) provincial data from Alberta is available for 2023 and 2024 only.



Outmigration

Indicator	Provincial	Regional
Radiological technologists (all)	√*	×
Radiological technologists (domestically trained)	×	×
Radiological technologists (internationally trained)	×	×
Radiation therapists (all)	√*	×
Radiation therapists (domestically trained)	×	×
Radiation therapists (internationally trained)	×	×
Magnetic resonance technologists (all)	√*	×
Magnetic resonance technologists (domestically trained)	×	×
Magnetic resonance technologists (internationally trained)	×	×
Nuclear medicine technologists (all)	√*	×
Nuclear medicine technologists (domestically trained)	×	×
Nuclear medicine technologists (internationally trained)	×	×
Diagnostic medical sonographers (all)	√*	×
Diagnostic medical sonographers (domestically trained)	×	×
Diagnostic medical sonographers (internationally trained)	×	×

Source: Signal49 Research.

Data limitations:

- Radiological technologists (all), radiation therapists (all), nuclear medicine technologists (all), magnetic resonance technologists (all), and diagnostic medical sonographers (all) provincial data from Ontario is available for 2023 and 2024 only.



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