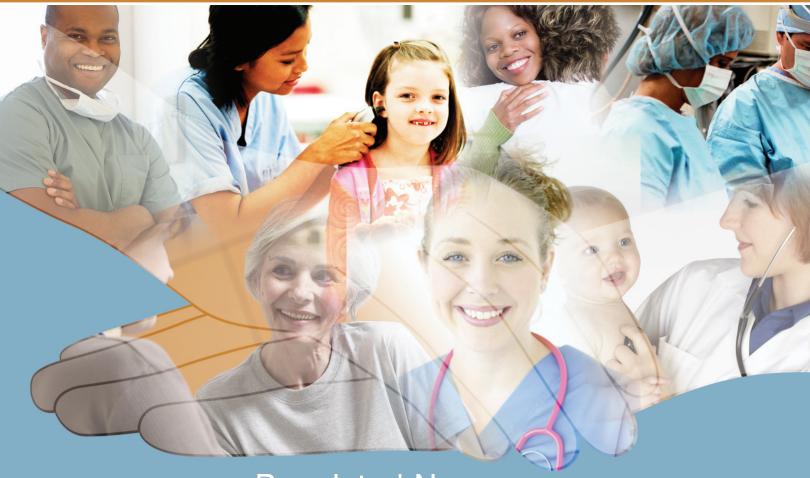
REGULATED NURSES



Regulated Nurses: Trends, 2003 to 2007

Registered Nurses Licensed Practical Nurses Registered Psychiatric Nurses

Health Human Resources



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Regulated Nurses: Trends, 2003 to 2007

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Executive Summary

Regulated Nurses: Trends, 2003 to 2007 draws on data from the Canadian Institute for Health Information's regulated Nursing Database, which covers the three regulated nursing professions in Canada: registered nurses (RNs), licensed practical nurses (LPNs) and registered psychiatric nurses (RPNs). This report presents five-year workforce trends across Canada, across regulated nursing professions and across a variety of demographic, education, mobility and employment characteristics, in order to inform health human resource planning in Canada.

Regulated Nursing Workforce Continues to Grow

There were 332,794 regulated nurses working in nursing in Canada in 2007, 78% of whom were RNs, 21% of whom were LPNs and 2% of whom were RPNs. These proportions remained relatively steady over the last five years.

In 2007, as in previous years, the number of regulated nurses in the workforce grew, with an annual percentage change of close to 2% in each of the previous five years. Both the RN and LPN workforces grew at rates exceeding that of the Canadian population, and the RPN workforce growth kept pace with the population growth in the western provinces over the five-year period from 2003 to 2007.

The proportion of regulated nurses who registered with their respective colleges but who were not working in nursing at the time of registration was steady at approximately 5%, about 18,000, over the five-year period.

Regulated Nursing Workforce Across the Generations

In each of the regulated nursing professions, the average age of entry into the workforce has increased. Regulated nurses are now often older than 30 years of age when they graduate and begin their nursing careers. In 2007, the baby boomer generation (age 43 to 61) dominated the nursing professions; this generation constituted 54% of the RN workforce, 58% of the LPN workforce and 64% of the RPN workforce.

Within each profession, regulated nurses in the 40-to-49 age group demonstrated relatively low entry rates and the lowest exit rates. That is, members of this group were more likely to remain employed in nursing within the same jurisdiction until they reached the age of 50, at which point exit rates increased.

Younger regulated nurses in all three nursing professions are demonstrating both relatively high new registration rates and relatively high exit rates. Many factors may explain these high rates, but likely they are the result of a high rate of inter-jurisdictional mobility within this age cohort.

Mobility Trends of Regulated Nursing Graduates

Within Canada, the top three destinations for work for Canadian-educated regulated nursing graduates were British Columbia, Alberta and Ontario. As RPNs are regulated in only the four western provinces, their top two destinations for work were Alberta and British Columbia.

The proportion of regulated nurses educated internationally grew slightly over the last five years. Overall, in 2007, close to 7% of the regulated nursing workforce was educated outside of Canada; this number has not changed significantly since 2003.

Registered Nurses

The RN workforce grew by an annual percentage change of close to 2% each year since 2003, to a total of 257,961 RNs in 2007. The proportion of females continued to be high, at 94%.

The average age of RNs in 2007 was 45.1 years, a slight increase of less than one year (0.6 years) over the last five years. The higher average age at which RNs have been graduating since 2005, 26.5 years, slows the rate of increase in the average age of the workforce.

RNs worked most often in hospitals (63%) in 2007; the community health sector employed 14% of RNs.

In 2007, 31% of internationally educated RN graduates were educated in the Philippines and 17% were educated in the United Kingdom. A total of 8% of the RN workforce graduated from an international RN program, which represents the highest proportion of international graduates among the nursing professions.

The last five years saw the emergence of the nurse practitioner specialty. Between 2003 and 2007, the number of licensed NPs in the workforce almost doubled, to 1,346. As of 2007, all territories and provinces except the Yukon Territory had licensed nurse practitioner programs.

Licensed Practical Nurses

The LPN workforce grew to 69,709 in 2007. This represents an increase of 10% since 2003. The proportion of females remained steady at 93%.

The average age of LPNs was 43.9 years in 2007, a decrease from 44.4 years in 2003. This is the only nursing profession of the three that showed a decrease in average age over the time period studied. The average age of LPNs who had graduated between 2005 and 2007 and who were in the workforce in 2007 was 31.1 years at graduation.

LPNs worked mostly in hospitals (46%) and in long-term care facilities (40%) in 2007. This proportion was consistent over the last five years.

Of the LPNs educated outside Canada who specified a location of graduation in 2007, 31% were educated in the United Kingdom and 18% were educated in the Philippines. A total of 2% of the LPN workforce in 2007 was educated outside Canada, down from 3% in 2006, and representing a significantly smaller proportion than the RPNs and RNs.

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Registered Psychiatric Nurses

The total RPN workforce grew to 5,124 in 2007. This number fluctuated over the five-year period, but the percentage change was less than one percent from 2003 to 2007. Of the three nursing professions, RPNs have the highest proportion of males, close to 23%. This ratio has not changed significantly over the last five years.

The average age of RPNs is the highest of the three workforces, at 47.2 years in 2007, an increase of one year since 2003. The average age of RPNs in the workforce who graduated between 2005 and 2007 was 29.0 years.

RPNs worked mostly in the hospital sector in 2007 (41%), but the proportion of RPNs employed in this sector decreased slightly over the last five years in favour of the community health sector, which was 26% in 2007.

Of internationally educated RPNs in 2007, 83% were educated in the United Kingdom. Overall, 7% of the RPN workforce in 2007 was educated outside of Canada, a clear majority in the United Kingdom. This distribution proportion fluctuated slightly over the five-year period, for an overall decrease of 0.5%.

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About the Canadian Institute for Health Information

The Canadian Institute for Health Information (CIHI) collects and analyzes information on health and health care in Canada and makes it publicly available. Canada's federal, provincial and territorial governments created CIHI as a not-for-profit, independent organization dedicated to forging a common approach to Canadian health information. CIHI's goal: to provide timely, accurate and comparable information. CIHI's data and reports inform health policies, support the effective delivery of health services and raise awareness among Canadians of the factors that contribute to good health.

One of many databases maintained at CIHI is the regulated Nursing Database (NDB), which holds administrative data on each of the three regulated nursing professions in Canada. Regulated nurses include registered nurses (including nurse practitioners), licensed practical nurses and registered psychiatric nurses.

Any questions or requests regarding this publication or the data should be directed to:

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For more information, visit our website at www.cihi.ca.

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About This Report

The Health Human Resources team at CIHI is pleased to present *Regulated Nurses: Trends, 2003 to 2007.*

The data contained in this report, related to the supply and distribution of the regulated nursing workforces, are a key component of health human resource planning in Canada and are published annually by CIHI. This information has been used by governments, researchers, stakeholders and advocacy groups, as well as private and public organizations, media and registered nurses. CIHI has been providing comprehensive data on the supply and distribution of regulated nurses in Canada since 2002, and on registered nurses since 1999.

One Report for Three Nursing Professions

For the first time, the information on each of the three regulated nursing professions is in one publication.

What Else Is New This Year?

Chapters 1 to 3 contain data on each of the regulated nursing professions. Within these chapters, the most popular tables were redesigned to incorporate time series data and proportions over the period from 2003 to 2007. As well, several new tables and figures were added, such as CIHI-defined entry and exit rates. Chapter 4 shows, by profession and health region, the distribution of regulated nurses providing direct care across Canada.

Chapter 5 contains the methodological notes, an invaluable resource to readers. They describe in detail the data quality and data collection processes at CIHI and the methodologies used in chapters 1 to 4. The chapter also includes a description of how privacy and confidentiality legislation is applied to the data collected and reported on by CIHI.

All CIHI publications, additional data and summary tables and QuickStats are available on the CIHI website. The free online tables provide additional in-depth information on each of the regulated nursing professions and on the regulated nursing workforce as a whole, presented by jurisdiction and workforce characteristics. QuickStats are free downloadable versions of selected figures from this and previous publications.

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- Kenneth McLachlin, Intern

CIHI would also like to thank the following organizations. A national database of regulated nursing data could not exist without their effort, commitment and collaboration.

Regulatory Authorities for the Registered Nursing Profession

- Association of Registered Nurses of Newfoundland and Labrador
- Association of Registered Nurses of Prince Edward Island
- · College of Registered Nurses of Nova Scotia
- Nurses Association of New Brunswick/Association des infirmières et infirmiers du Nouveau Brunswick
- Ordre des infirmières et infirmiers du Québec
- College of Nurses of Ontario/Ordre des infirmières et infirmiers de l'Ontario
- College of Registered Nurses of Manitoba
- Saskatchewan Registered Nurses' Association
- College & Association of Registered Nurses of Alberta
- College of Registered Nurses of British Columbia
- Yukon Registered Nurses Association
- Registered Nurses Association of Northwest Territories and Nunavut

Regulatory Authorities for the Licensed Practical Nursing Profession

- College of Licensed Practical Nurses of Newfoundland and Labrador
- Prince Edward Island Licensed Practical Nurses Registration Board
- College of Licensed Practical Nurses of Nova Scotia
- Association of New Brunswick Licensed Practical Nurses/Association des infirmières et infirmiers auxiliaires autorisé(e)s du Nouveau-Brunswick
- Ordre des infirmières et infirmiers auxiliaires du Québec
- College of Nurses of Ontario/Ordre des infirmières et infirmiers de l'Ontario

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- College of Licensed Practical Nurses of Manitoba
- Saskatchewan Association of Licensed Practical Nurses
- College of Licensed Practical Nurses of Alberta
- College of Licensed Practical Nurses of British Columbia
- Yukon Licensed Practical Nurses, Yukon Government
- Northwest Territories Licensed Practical Nurses, Department of Health and Social Services, Government of Northwest Territories

Regulatory Authorities for the Registered Psychiatric Nursing Profession

- College of Registered Psychiatric Nurses of Manitoba
- Registered Psychiatric Nurses Association of Saskatchewan
- College of Registered Psychiatric Nurses of Alberta
- College of Registered Psychiatric Nurses of British Columbia

Note: Registered psychiatric nurses are educated and regulated in the four western provinces in Canada.

National Organizations

· Canadian Nurses Association/Association des infirmières et infirmiers du Canada

Please note: The analyses and conclusions in this document do not necessarily reflect those of the individuals or organizations mentioned above.

Finally, we wish to extend our thanks and gratitude to all regulated nurses caring for and improving the lives of Canadians.

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Introduction

The provision of high-quality health care services requires a workforce that is well equipped not only to cater to current needs but also to face future challenges. We often hear sentiments and questions about the supply and availability of heath care professionals: Are there enough regulated nurses in Canada? Will they be there when I need them? These questions highlight the public's perspective on health care and remind us that health human resource planning affects all of us.

Health care planners anticipate needs by comparing the existing health workforce supply with expected future health care needs of the population. The gaps can then inform the development and implementation of policies to ensure that the right people, with the right skills, in the right settings are providing high-quality care. This report provides a baseline of data for health human resource planners on the supply and selected characteristics about the regulated nursing workforce across the country.

Among G8 countries, Canada is second only to the United Kingdom in the ratio of nurses and midwives to physicians. Figure 1 indicates a regulated nursing workforce (plus midwives) that was 5.3 times as large as the physician workforce in 2006. In other words, there were 5.3 regulated nurses for each physician in Canada in 2006.

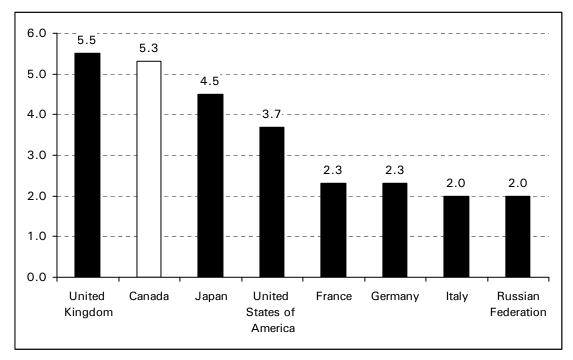


Figure 1 Ratio of Nurses and Midwives to Physicians Within G8 Countries, 2006

Note

United Kingdom and Northern Ireland data are for 1997, Japan data are for 2004, United States data are for 2000 and Germany data are for 2005. Source

World Health Organization, World Health Statistics 2008 (Paris, France: WHO, 2008).

Figure 2 shows that Canada had the second highest number of regulated nurses and midwives per 10,000 population in the G8. Like other countries, Canada faces various health human resource challenges. Geography especially influences the distribution of, and demand for, health resources, including providers.

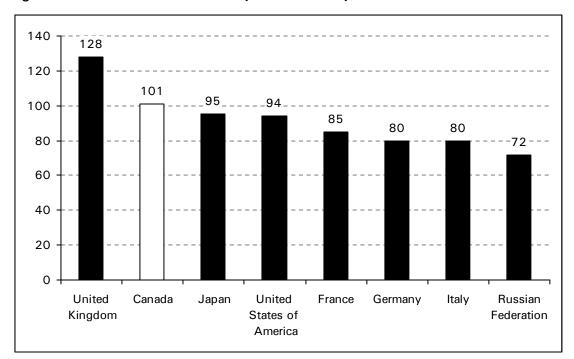


Figure 2 Nurses and Midwives per 10,000 Population Within G8 Countries, 2006

Notes

United Kingdom and Northern Ireland data are for 1997, Japan data are for 2004, United States data are for 2000 and Germany data are for 2005. Included are professional nurses, professional midwives, auxiliary nurses, auxiliary midwives, enrolled nurses, enrolled midwives and other personnel, such as dental nurses and primary care nurses. Traditional birth attendants are not counted here, but are considered to be community/traditional health workers.

Source

World Health Organization, World Health Statistics 2008 (Paris, France: WHO, 2008).

The Canadian Regulated Nursing Workforce

In Canada, the largest group within the paid health care workforce is composed of regulated nurses, with a total workforce of 332,794 in 2007. The regulated nursing workforce is made up of three types of professionals: registered nurses (including nurse practitioners), registered psychiatric nurses and licensed practical nurses. Each provincial and territorial jurisdiction in Canada is responsible for the legislation covering the regulated nursing professions, and each jurisdiction has its own regulatory body for each profession for the regulation and licensing of its members.

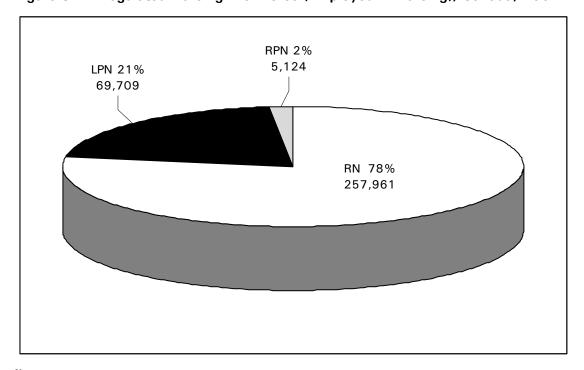


Figure 3 Regulated Nursing Workforce (Employed in Nursing), Canada, 2007

Note

Totals may not sum to 100% due to rounding.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Registered Nurses

Registered nurses (RNs) work both autonomously and in collaboration with others. RNs coordinate health care, deliver direct services and support clients in their self-care decisions and actions in health, illness, injury and disability in all stages of life. RNs contribute to the health care system through their work in direct practice, education, administration, research and policy in a wide array of settings.

Nurse practitioners (NPs) are RNs with additional educational preparation and experience. NPs may order and interpret diagnostic tests, prescribe pharmaceuticals, medical devices and other therapies and perform procedures. NPs often work in primary care settings, such as community health centres or remote nursing stations. As well, NPs may work in other work locations, including clinics, long-term care facilities and hospitals. Nurse practitioners are licensed in all provinces and territories in Canada except the Yukon.

Licensed Practical Nurses

Licensed practical nurses (LPNs) work independently or in collaboration with other members of the health care team. LPNs assess clients and work in health promotion and illness prevention. They assess, plan, implement and evaluate care for clients. LPNs practise in a variety of settings, such as hospitals, homes for the aged, public health units, community nursing agencies, private practices, clinics, doctors' offices, schools, adult day care centres, private homes, community health centres, child care centres and children's camps.

Registered Psychiatric Nurses

Registered psychiatric nurses (RPNs) are regulated separately from other regulated nursing professions in four provinces: Manitoba, Saskatchewan, Alberta and British Columbia. RPNs provide services to clients whose primary care needs relate to mental and developmental health. RPN duties include planning, implementing and evaluating therapies and programs on the basis of psychiatric nursing assessments. They often work in acute psychiatry, long-term geriatric care and home care, residential and community programs for the developmentally handicapped, forensic psychiatry, institutional and community-based corrections and community mental health programs.

Notes to Readers

- 1. The statistics presented in this publication and on the CIHI website were reviewed and authorized by representatives of the provincial/territorial regulatory authorities responsible for the regulation and licensure of regulated nurses, as listed in Appendix B of this publication.
- 2. The term "regulated nursing workforce," as used in this publication and accompanying documents, includes members of the licensed practical nurse (LPN), registered nurse (RN) and registered psychiatric nurse (RPN) workforces who were employed in their profession at the time of annual registration.
- 3. CIHI statistics will differ from those published by provincial/territorial regulatory authorities for the following reasons:
 - i. Collection period—CIHI collects data after the first six months of the 12-month registration period, in an effort to ensure timely information. The resulting undercoverage has typically been only 1% to 5%; the counts released by CIHI are generally lower than provincial/territorial statistics.
 - ii. Differences in definition—regulatory authorities typically report the total number of active registrations received during the registration year. CIHI divides the active total into four categories: employed in nursing, employed in other than nursing, not employed and not stated. Regulated nurses employed in nursing are the focus of this report, and those falling into the other categories are excluded from most analyses.
 - iii. Exclusions from CIHI data—CIHI statistics do not necessarily include regulated nurses who were on leave at the time of annual registration or first-time registrants. These regulated nurses may be included in statistics published by provincial/territorial regulatory authorities.
 - iv. CIHI editing and processing—CIHI applies methodologies to standardize the information about each regulated nursing workforce across the country. For example, potential duplicate records are removed when the province of registration is not the same as the province of employment. The footnotes and Chapter 5 provide more information regarding the specific methodologies used and their application.
- 4. Because CIHI and the provincial/territorial regulatory authorities are continually working to improve data quality, these figures may not be comparable to historical data. Historical changes for each profession are listed at the end of each chapter.

See Chapter 5 (Methodological Notes) for more detailed explanations of these concepts.

Chapter 1—Regulated Nurses in Canada: Trends of Registered Nurses

Supply Trends: How Many Registered Nurses?

The regulated nursing workforce is of critical importance to the health of Canadians and thus to health human resource planners. This chapter presents data on registered nurses (RNs), including nurse practitioners (NPs), in Canada in 2007, and illustrates key trends over the last five years. A section specific to NPs is included at the end of this chapter.

The RN workforce is defined as those RNs (including NPs) employed in nursing within Canada. These represented 78% of the total regulated nursing workforce in 2007. The employment status indicator classifies RNs as either working in nursing, working outside of nursing or not working. The position status indicator further classifies RNs in the workforce as working in part-time, full-time or casual positions. As illustrated in Figure 4, the vast majority of RNs who register in Canada are in the RN workforce, with more than half of those employed in full-time positions (57%).

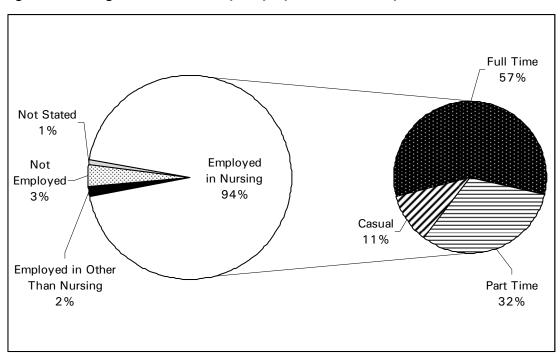


Figure 4 Registered Nurses, by Employment Status, by Position Status, Canada, 2007

Notes

Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

The size of the RN workforce has increased relatively steadily since 1980, when data became available. Figure 5 illustrates the growth trend of the RN workforce over time, with three distinct trends evident.

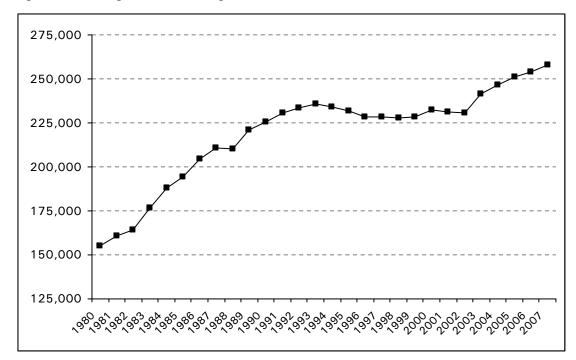


Figure 5 Registered Nursing Workforce, Canada, 1980 to 2007

Notes

In 1988, the decrease is largely attributed to a substantial increase in the number of employment status not stated records in the Ontario data for that year.

In 2000, the increase is partially attributed to the identification of comparatively fewer duplicates in the Ontario and Quebec data that year. In 2003, the increase is partially attributed to methodological changes in the submission of data that year.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

The average annual growth rate of the RN workforce was approximately 3.3% between 1980 and 1993.

A flattening of the growth curve was seen between 1993 and 2002, reflecting a period of fiscal restraint in health care spending that also affected the growth in the number of health care providers, resulting in an average annual growth rate of the registered nursing workforce of approximately -0.2%.

The average annual growth rate between 2002 and 2007 was approximately 2.2%. The previous high of 235,625 RNs in Canada of 1993 was surpassed in 2003. The positive trend since 2002 appears to be due in part to reinvestment in health care, resulting in an increase in the number of RNs in the workforce.

i. See Chapter 5 (Methodological Notes) for average annual growth rate formula.

The number of RNs per 100,000 population shows a similar trend over the three time periods (see Figure 6); however, the high ratio of the early 1990s (824 RNs per 100,000 population) has not been reached since. In 2007, there were 782 RNs per 100,000 population in Canada. Note that the overall decrease in the ratio may be partially explained by an increase in population over this time period and is not the result of an overall decrease in the number of RNs.

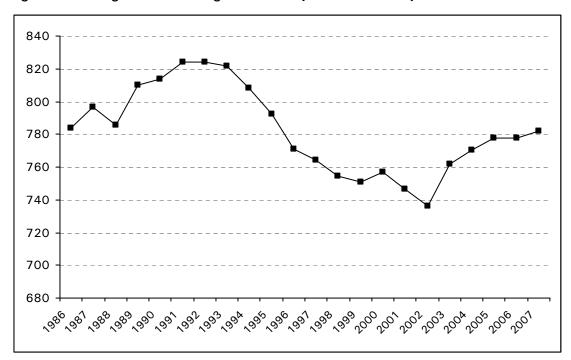


Figure 6 Registered Nursing Workforce per 100,000 Population, Canada, 1986 to 2007

Notes

In 1988, the decrease is largely attributed to a substantial increase in the number of employment status not stated records in the Ontario data for that year.

In 2000, the increase is partially attributed to the identification of comparatively fewer duplicates in the Ontario and Quebec data that year. In 2003, the increase is partially attributed to methodological changes in the submission of data that year.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Sources

Regulated Nursing Database, Canadian Institute for Health Information; population estimates (July 1, 2007), Statistics Canada.

Employment Trends: Is the Workforce Changing?

Table 1 shows the supply of all registered nurses (including nurse practitioners) over the period 2003 to 2007. The total number of RNs in Canada was 274,274 in 2007. This represents an increase of 1.3% from 2006. Although the increase in the number of RNs employed in nursing was not uniform across the country (see Table 2), each year between 2003 and 2007 saw an increase in the Canadian RN workforce of between 1% and 2%, for an overall increase of 6.9% in the RN workforce over the period. Additional information on RNs by jurisdiction is available in the data tables on the CIHI website.

Table 1 Registered Nurses, by Employment Status, by Position Status, Canada, 2003 to 2007

		Employed	in Nursing			Not Employed in Nursing						Grand Total
	Regular Basis, Full Time	Regular Basis, Part Time	Casual Basis	Regular Basis, Status Unknown	Sub-Total	Employed in Other Than Nursing		Not Employed		Not Stated	Sub-Total	
						Seeking Employment	Not Seeking Employment	Seeking Employment in Nursing	Not Seeking Employment in Nursing			
	Α	В	С	D	E = A + B + C + D	F	G	Н	1	J	K = F + G + H + I + J	L = E + K
						(1	Count)					
2003	124,202	77.391	25,475	14.347	241,415	451	4,429	2,308	6.189	3,674	17.051	258,466
2004	125,791	79,252	24,818	16,710	246,571	549	4,487	2,349	6,820	2,561	16,766	263,337
2005	137,045	82,224	28,043	3,930	251,242	432	4,598	2,767	6,145	3,213	17,155	268,397
2006	141,047	82,120	27,366	3,286	253,819	377	4,399	2,396	6,155	3,699	17,026	270,845
2007	146,052	81,929	27,197	2,783	257,961	365	4,540	2,428	6,025	2,955	16,313	274,274
						(Annual Per	centage Change	e)				
2003	-	_	_	-		-	-	-	-	-	-	-
2004	1.3%	2.4%	-2.6%	16.5%	2.1%	21.7%	1.3%	1.8%	10.2%	-30.3%	-1.7%	1.9%
2005	8.9%	3.8%	13.0%	-76.5%	1.9%	-21.3%	2.5%	17.8%	-9.9%	25.5%	2.3%	1.9%
2006	2.9%	-0.1%	-2.4%	-16.4%	1.0%	-12.7%	-4.3%	-13.4%	0.2%	15.1%	-0.8%	0.9%
2007	3.5%	-0.2%	-0.6%	-15.3%	1.6%	-3.2%	3.2%	1.3%	-2.1%	-20.1%	-4.2%	1.3%
						(Percenta	ge Distribution)					
2003	48.1%	29.9%	9.9%	5.6%	93.4%	0.2%	1.7%	0.9%	2.4%	1.4%	6.6%	100.0%
2004	47.8%	30.1%	9.4%	6.3%	93.6%	0.2%	1.7%	0.9%	2.6%	1.0%	6.4%	100.0%
2005	51.1%	30.6%	10.4%	1.5%	93.6%	0.2%	1.7%	1.0%	2.3%	1.2%	6.4%	100.0%
2006	52.1%	30.3%	10.1%	1.2%	93.7%	0.1%	1.6%	0.9%	2.3%	1.4%	6.3%	100.0%
2007	53.3%	29.9%	9.9%	1.0%	94.1%	0.1%	1.7%	0.9%	2.2%	1.1%	5.9%	100.0%

Notes

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

RNs employed in nursing but reported as status unknown are those who reported employment data but who failed to indicate their position status as full time, part time or casual. Accordingly, they are included in the workforce but are excluded from some analyses in the report, as indicated in table footnotes. The number of RNs whose position is reported as status unknown decreased every year since 2004 and represented only 1.1% of the workforce by 2007.

Table 2 Registered Nursing Workforce, by Jurisdiction and Canada, 2003 to 2007

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T./ Nun.	Canada
							(Count)						
2003	5,430	1,373	8,498	7,186	62,494	85,187	10,034	8,503	24,037	27,711	290	672	241,415
2004	5,452	1,377	8,602	7,375	63,455	86,099	10,628	8,481	25,600	28,289	283	930	246,571
2005	5,496	1,443	8,733	7,526	63,827	89,429	10,811	8,549	26,355	27,814	302	957	251,242
2006	5,515	1,428	8,790	7,680	64,014	90,061	10,902	8,480	26,752	28,840	324	1,033	253,819
2007	5,574	1,435	8,843	7,726	64,955	90,978	10,825	8,669	27,527	30,059	322	1,048	257,961
						(Annual	Percentage	Change)					
2003	_	-	-	_	_	_	_	_	_	_	_	_	_
2004	0.4%	0.3%	1.2%	2.6%	1.5%	1.1%	5.9%	-0.3%	6.5%	2.1%	-2.4%	38.4%	2.1%
2005	0.8%	4.8%	1.5%	2.0%	0.6%	3.9%	1.7%	0.8%	2.9%	-1.7%	6.7%	2.9%	1.9%
2006	0.3%	-1.0%	0.7%	2.0%	0.3%	0.7%	0.8%	-0.8%	1.5%	3.7%	7.3%	7.9%	1.0%
2007	1.1%	0.5%	0.6%	0.6%	1.5%	1.0%	-0.7%	2.2%	2.9%	4.2%	-0.6%	1.5%	1.6%
						(Perce	ntage Distri	bution)					
2003	2.2%	0.6%	3.5%	3.0%	25.9%	35.3%	4.2%	3.5%	10.0%	11.5%	0.1%	0.3%	100.0%
2004	2.2%	0.6%	3.5%	3.0%	25.7%	34.9%	4.3%	3.4%	10.4%	11.5%	0.1%	0.4%	100.0%
2005	2.2%	0.6%	3.5%	3.0%	25.4%	35.6%	4.3%	3.4%	10.5%	11.1%	0.1%	0.4%	100.0%
2006	2.2%	0.6%	3.5%	3.0%	25.2%	35.5%	4.3%	3.3%	10.5%	11.4%	0.1%	0.4%	100.0%
2007	2.2%	0.6%	3.4%	3.0%	25.2%	35.3%	4.2%	3.4%	10.7%	11.7%	0.1%	0.4%	100.0%

Notes

In 2004, data collection in the Northwest Territories/Nunavut improved, increasing the number of registrations.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Registered Nurses Not Employed in Nursing

Effective health human resource planning requires an understanding of both the current and the potential workforce. While the analysis in this chapter focuses on registered nurses currently employed in nursing, it is also important to understand the profile of the RN profession as a whole and to investigate trends with respect to RNs who register but do not work in nursing.

As shown in Table 3, RNs in the 50+ age groups account for the largest proportion of RNs who were not seeking employment between 2003 and 2007. RNs who were seeking employment were spread out across all age groups.

Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

Table 3 Registered Nurses Not Employed in Nursing, by Employment Status, by Age Group, Canada, 2003 to 2007

		<30	30-39	40-49	50-59	60+	Canada
				(Count	t)		
	2003	288	671	790	686	322	2,757
Not Employed	2004	390	654	748	767	339	2,898
in Nursing but Seeking	2005	450	793	758	772	425	3,198
Nursing Employment	2006	339	640	645	725	424	2,773
	2007	324	611	705	672	480	2,792
Not Employed	2003	317	1,836	2,823	3,632	2,008	10,616
in Nursing and Not	2004	318	1,753	2,843	3,917	2,476	11,307
Seeking Nursing	2005	262	1,500	2,534	3,779	2,668	10,743
Employment	2006	228	1,365	2,329	3,691	2,941	10,554
Employment	2007	202	1,208	2,215	3,670	3,270	10,565
			ıA)	nnual Percenta	ge Change)		
	2003	_	_	_	_	_	_
Not Employed	2004	35.4%	-2.5%	-5.3%	11.8%	5.3%	5.1%
in Nursing But Seeking	2005	15.4%	21.3%	1.3%	0.7%	25.4%	10.4%
Nursing Employment	2006	-24.7%	-19.3%	-14.9%	-6.1%	-0.2%	-13.3%
. , ,	2007	-4.4%	-4.5%	9.3%	-7.3%	13.2%	0.7%
Not Employed	2003	_	_	_	-	_	_
in Nursing and Not	2004	0.3%	-4.5%	0.7%	7.8%	23.3%	6.5%
Seeking Nursing	2005	-17.6%	-14.4%	-10.9%	-3.5%	7.8%	-5.0%
Employment	2006	-13.0%	-9.0%	-8.1%	-2.3%	10.2%	-1.8%
Employment	2007	-11.4%	-11.5%	-4.9%	-0.6%	11.2%	0.1%
			(Percentage Dis	stribution)		
	2003	10.4%	24.3%	28.7%	24.9%	11.7%	100.0%
Not Employed	2004	13.5%	22.6%	25.8%	26.5%	11.7%	100.0%
in Nursing But Seeking	2005	14.1%	24.8%	23.7%	24.1%	13.3%	100.0%
Nursing Employment	2006	12.2%	23.1%	23.3%	26.1%	15.3%	100.0%
G	2007	11.6%	21.9%	25.3%	24.1%	17.2%	100.0%
Not Employed	2003	3.0%	17.3%	26.6%	34.2%	18.9%	100.0%
in Nursing and Not	2004	2.8%	15.5%	25.1%	34.6%	21.9%	100.0%
Seeking Nursing	2005	2.4%	14.0%	23.6%	35.2%	24.8%	100.0%
Employment	2006	2.2%	12.9%	22.1%	35.0%	27.9%	100.0%
LITIPIOYITICITE	2007	1.9%	11.4%	21.0%	34.7%	31.0%	100.0%

Notes

Employment status not employed in nursing includes RNs who are not working or working in positions outside of nursing. Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Position Status

Table 4 shows that the majority of registered nurses employed in nursing are employed on a regular basis in full-time positions, and that their number steadily increased over the past five years. In 2007, 146,052 (57.2% of the workforce) were working in full-time positions.

Data are not applicable or do not exist.

Table 4 Registered Nursing Workforce, by Position Status, by Jurisdiction and Canada, 2003 to 2007

		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T./ Nun.	Canada
Employed Full Time	2003 2004 2005 2006 2007	3,966 3,909 3,853 3,794 3,946	713 691 770 729 695	5,203 5,321 5,446 5,565 5,656	4,377 4,682 4,806 4,865 4,890	32,370 32,842 34,081 35,172 36,111	43,351 44,566 53,696 55,462 57,403	(Count) 4,637 4,963 5,184 5,204 5,146	4,613 4,622 4,685 4,713 4,845	10,204 9,950 10,074 10,286 10,711	14,175 14,122 14,316 15,119 16,499	143 123 134 138 150	450 - - - -	124,202 125,791 137,045 141,047 146,052
Employed Part Time	2003 2004 2005 2006 2007	922 963 979 982 932	597 640 532 546 554	2,353 2,371 2,377 2,346 2,353	2,120 2,215 2,195 2,235 2,260	20,308 20,312 20,637 20,684 20,903	24,383 24,123 27,846 27,218 26,308	4,782 4,876 4,800 4,871 4,867	2,940 2,957 2,859 2,819 2,783	10,114 12,176 11,548 11,782 12,118	8,702 8,525 8,351 8,535 8,762	92 94 100 102 89	78 - - - -	77,391 79,252 82,224 82,120 81,929
Employed Casual	2003 2004 2005 2006 2007	542 580 664 739 696	63 29 140 153 183	942 910 910 879 834	689 478 525 580 576	6,769 6,752 7,035 7,376 7,433	6,154 6,480 7,887 7,381 7,267	615 694 767 788 788	950 902 978 948 1,024	3,719 2,786 3,923 3,813 3,700	4,834 5,143 5,147 4,625 4,617	55 64 67 84 79	143 - - - -	25,475 24,818 28,043 27,366 27,197
Employed Position Status Unknown	2003 2004 2005 2006 2007	- - - -	- 17 1 - 3	- - - -	- - - -	3,047 3,549 2,074 782 508	11,299 10,930 - - -	95 60 39 24	- 27 - 17	- 688 810 871 998	- 499 - 561 181	- 2 1 - 4	1 930 957 1,033 1,048	14,347 16,710 3,930 3,286 2,783
							(Annual	Percentage	Change)					
Employed Full Time	2003 2004 2005 2006 2007	-1.4% -1.4% -1.5% 4.0%	-3.1% 11.4% -5.3% -4.7%	2.3% 2.3% 2.2% 1.6%	7.0% 2.6% 1.2% 0.5%	1.5% 3.8% 3.2% 2.7%	2.8% 20.5% 3.3% 3.5%	7.0% 4.5% 0.4% -1.1%	0.2% 1.4% 0.6% 2.8%	-2.5% 1.2% 2.1% 4.1%	-0.4% 1.4% 5.6% 9.1%	-14.0% 8.9% 3.0% 8.7%	- - - -	1.3% 8.9% 2.9% 3.5%
Employed Part Time	2003 2004 2005 2006 2007	- 4.4% 1.7% 0.3% -5.1%	7.2% -16.9% 2.6% 1.5%	0.8% 0.3% -1.3% 0.3%	4.5% -0.9% 1.8% 1.1%	- 1.6% 0.2% 1.1%	-1.1% 15.4% -2.3% -3.3%	2.0% -1.6% 1.5% -0.1%	0.6% -3.3% -1.4% -1.3%	20.4% -5.2% 2.0% 2.9%	-2.0% -2.0% 2.2% 2.7%	2.2% 6.4% 2.0% -12.7%	- - - -	2.4% 3.8% -0.1% -0.2%
Employed Casual	2003 2004 2005 2006 2007	7.0% 14.5% 11.3% -5.8%	-54.0% 382.8% 9.3% 19.6%	-3.4% 0.0% -3.4% -5.1%	-30.6% 9.8% 10.5% -0.7%	-0.3% 4.2% 4.8% 0.8%	5.3% 21.7% -6.4% -1.5%	12.8% 10.5% 2.7% 0.0%	-5.1% 8.4% -3.1% 8.0%	-25.1% 40.8% -2.8% -3.0%	6.4% 0.1% -10.1% -0.2%	16.4% 4.7% 25.4% -6.0%	- - - -	-2.6% 13.0% -2.4% -0.6%
							(Perce	ntage Distri	ibution)					
Employed Full Time	2003 2004 2005 2006 2007	73.0% 71.7% 70.1% 68.8% 70.8%	51.9% 50.8% 53.4% 51.1% 48.5%	61.2% 61.9% 62.4% 63.3% 64.0%	60.9% 63.5% 63.9% 63.3% 63.3%	54.5% 54.8% 55.2% 55.6% 56.0%	58.7% 59.3% 60.0% 61.6% 63.1%	46.2% 47.1% 48.2% 47.9% 47.6%	54.3% 54.5% 55.0% 55.6% 56.0%	45.3% 39.9% 39.4% 39.7% 40.4%	51.2% 50.8% 51.5% 53.5% 55.2%	49.3% 43.8% 44.5% 42.6% 47.2%	67.1% - - - -	54.7% 54.7% 55.4% 56.3% 57.2%
Employed Part Time	2003 2004 2005 2006 2007	17.0% 17.7% 17.8% 17.8% 16.7%	43.5% 47.1% 36.9% 38.2% 38.7%	27.7% 27.6% 27.2% 26.7% 26.6%	29.5% 30.0% 29.2% 29.1% 29.3%	34.2% 33.9% 33.4% 32.7% 32.4%	33.0% 32.1% 31.1% 30.2% 28.9%	47.7% 46.3% 44.6% 44.8% 45.1%	34.6% 34.9% 33.5% 33.2% 32.2%	42.2% 48.9% 45.2% 45.5% 45.7%	31.4% 30.7% 30.0% 30.2% 29.3%	31.7% 33.5% 33.2% 31.5% 28.0%	11.6% - - - -	34.1% 34.5% 33.2% 32.8% 32.1%
Employed Casual	2003 2004 2005 2006 2007	10.0% 10.6% 12.1% 13.4% 12.5%	4.6% 2.1% 9.7% 10.7% 12.8%	11.1% 10.6% 10.4% 10.0% 9.4%	9.6% 6.5% 7.0% 7.6% 7.5%	11.4% 11.3% 11.4% 11.7% 11.5%	8.3% 8.6% 8.8% 8.2% 8.0%	6.1% 6.6% 7.1% 7.3% 7.3%	11.2% 10.6% 11.5% 11.2% 11.8%	15.5% 11.2% 15.4% 14.7% 13.9%	17.4% 18.5% 18.5% 16.4% 15.5%	19.0% 22.8% 22.3% 25.9% 24.8%	21.3%	11.2% 10.8% 11.3% 10.9% 10.7%

Notes

Employed RNs with position status unknown are excluded from the percentage distribution.

From 2004 to 2007, the Northwest Territories/Nunavut submitted all position status records as status unknown.

In 2004, data collection in the Northwest Territories/Nunavut improved, increasing the number of registrations.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication. Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

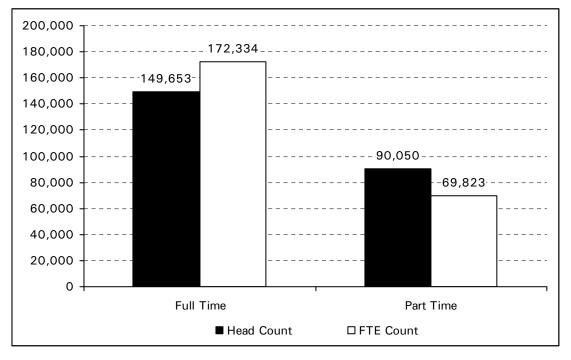
As Table 4 demonstrates, the percentage of the RN workforce employed on a full-time basis varied across jurisdictions in 2007, from 70.8% in Newfoundland and Labrador and 64.0% in Nova Scotia to 47.2% in the Yukon and 40.4% in Alberta. The proportion of RNs in part-time positions ranged from 45.7% in Alberta and 45.1% in Manitoba to 16.7% in Newfoundland and Labrador and 26.6% in Nova Scotia. The average age of full-time and part-time RNs was 45.0 years; that of casual workers was 46.1 years.

There was a larger proportion of male RNs employed in full-time positions in 2007 than of female RNs. In that year, 72.6% of male RNs were employed full time, compared to 56.1% of female RNs. Only 18.0% of male RNs had part-time employment, compared to 32.0% of female RNs. Casual employment rates followed a similar pattern, with 10.8% of female RNs and 8.3% of male RNs employed on a casual basis.

Full-Time Equivalents Versus Head Counts

The calculation of full-time equivalents (FTEs) provides another way to represent the supply of RNs using the number of hours worked. While the data required to calculate FTEs are not collected annually by CIHI, other sources can be used, such as the National Survey of the Work and Health of Nurses, 2005.

Figure 7 Head and FTE Counts of the Registered Nursing Workforce, by Full-Time or Part-Time Status, Canada, 2005



Source

National Survey of the Work and Health of Nurses, 2005, Statistics Canada (Canadian Institute for Health Information share file).

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ii. See Chapter 5 (Methodological Notes) for further explanation of the FTE calculation.

An FTE has been estimated as the ratio of earned hours over "normal" earned hours, where earned hours are hours worked plus benefits. Using the Statistics Canada definition of a normal work week at 37.3 hours, part-time RNs have an average FTE value of 0.78 and full-time RNs have an average FTE value of 1.15. Of the part-time RNs, almost one-fifth worked more than 40 hours per week; of the full-time RNs, more than half worked more than 40 hours per week. Note that overtime hours (both paid and unpaid) are included in the total number of hours worked, and RNs may have reported hours worked in more than one nursing job.

Multiple Employment

It is not uncommon for RNs to have more than one nursing job, often with multiple employers. In 2007, 13.6% of the RN workforce reported having more than one employer in nursing, and the proportion was consistently higher for those working on a part-time or casual basis. Although 42.3% of the 2007 workforce reported working in part-time or casual positions, the total number of hours worked by those in multiple positions may equal or exceed the total of a full-time position.

Table 5 Registered Nurses Employed in Nursing With Multiple Employers, by Position Status With Primary Employer, Canada, 2003 to 2007

	Employed Full Time	Employed Part Time	Employed Casual	Employed Position Status Unknown	Total With Multiple Employers
			(Count)		
2003	13,341	12,895	5,924	676	32,836
2004	11,773	12,510	5,632	851	30,766
2005	13,321	13,795	6,270	653	34,039
2006	13,271	13,129	5,399	299	32,098
2007	15,408	13,752	5,335	439	34,934
		()	Annual Percentage	Change)	
2003	_	_	_	_	_
2004	-11.8%	-3.0%	-4.9%	_	-6.3%
2005	13.1%	10.3%	11.3%	_	10.6%
2006	-0.4%	-4.8%	-13.9%	_	-5.7%
2007	16.1%	4.7%	-1.2%	-	8.8%
			(Percentage Distri	ibution)	
2003	40.6%	39.3%	18.0%	_	100.0%
2004	38.3%	40.7%	18.3%	_	100.0%
2005	39.1%	40.5%	18.4%	_	100.0%
2006	41.3%	40.9%	16.8%	_	100.0%
2007	44.1%	39.4%	15.3%	-	100.0%

Notes

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

Non-response for *multiple employment* element (% of RN workforce): 2003, n = 308 (0.1%); 2004, n = 680 (0.3%); 2005, n = 1,156 (0.5%); 2006, n = 1.944 (0.8%); 2007, n = 872 (0.3%).

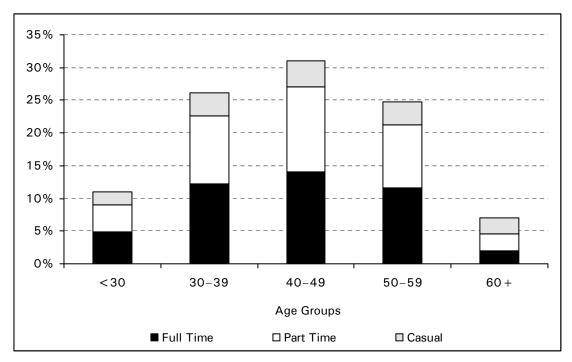
Totals may not sum to 100% due to rounding.

RNs with multiple employment and position status unknown are excluded from percentage distribution.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Figure 8 shows the distribution of RNs working for multiple employers; RNs from age 30 to 59 comprised the largest group in 2007. Further breakdown by position status indicates that in 2007, a high number of full-time RNs in each age group was working in multiple positions.

Figure 8 Registered Nurses Employed in Nursing With Multiple Employers, by Position Status, by Age Group, Canada, 2007



Notes

Non-response for multiple employment element (% of RN workforce): 2007, n = 872 (0.3%). See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Location of Work

The hospital sector employs nearly two-thirds of the RN workforce in Canada. Figure 9 shows a slight increase in the proportion of RNs employed in the community health sector in Canada, from 13.1% in 2003 to 14.1% in 2007. The greatest proportion of nurses working in this sector in 2007 was in the Northwest Territories and Nunavut, at 43.9%. Employment in the nursing home/long-term care sector fluctuated in Canada between 10.6% and 11.7% over the five-year period, with the largest fluctuation occurring in Quebec.

70.0% 60.0% 50.0% 40.0% 30.0% 10.0% 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 P.E.I. N.S. N.B. Que. Ont. Man. Sask. Alta. B.C. Y.T. N.W.T./Nun. Canada □ Community Health

Figure 9 Registered Nursing Workforce, by Place of Work, by Jurisdiction and Canada, 2003 and 2007

Non-response for place of work element (% of RN workforce): 2003, n = 3,362 (1.4%); 2007, n = 2,086 (0.8%).

Hospital includes data from hospital (general, maternal, pediatric, psychiatric), mental health centre and rehabilitation/convalescent centre. Community health includes data from community health centre, home care agency, nursing station (outpost or clinic), public health department/unit.

Nursing home/LTC includes data from nursing home/long-term care facility.

Other place of work includes data from business/industry/occupational health office, private nursing agency/private duty, self-employed, physician's office/family practice unit, educational institution, association/government and other. Totals may not sum to 100% due to rounding. Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Regulated Nursing Database, Canadian Institute for Health Information.

In 2007, the average age of RNs working in the hospital sector was 43.4 years, compared to the average age of 46.7 years for RNs employed in community health and 48.3 years for RNs employed in the nursing home/long-term care sector.

Position Type

In 2007, 199,756 (78.3%) RNs were employed as staff nurses/community health nurses in Canada, an increase of 2.3% from 195,250 in 2006 (see Table 6).

Table 6 Registered Nursing Workforce, by Position Type, by Jurisdiction and Canada, 2003 to 2007

		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Υ.Τ.	N.W.T./ Nun.	Canada
Staff Nurse	2003 2004 2005 2006 2007	4,363 4,345 4,369 4,380 4,336	984 994 1,074 1,090 1,084	6,775 6,861 6,941 6,935 6,934	5,793 5,962 6,120 6,241 6,239	42,347 48,148 47,990 49,763 51,149	61,228 61,084 67,418 67,514 68,699	(Count) 7,425 7,853 8,091 8,190 8,148	6,952 6,887 6,913 6,872 6,957	18,937 20,302 21,043 20,574 21,814	22,225 22,411 21,965 22,673 23,391	212 202 218 236 239	479 702 679 782 766	177,720 185,751 192,821 195,250 199,756
Manager	2003 2004 2005 2006 2007	530 566 580 558 583	256 254 211 180 175	1,059 1,044 1,005 996 967	703 793 836 877 900	9,486 4,104 4,066 4,214 4,256	5,216 5,380 5,326 5,493 5,525	813 877 837 821 842	764 771 750 701 734	1,544 1,640 1,643 1,693 1,843	2,008 2,118 2,119 2,225 2,343	20 22 26 26 29	75 79 86 81 89	22,474 17,648 17,485 17,865 18,286
Other Positions	2003 2004 2005 2006 2007	516 541 526 573 645	127 129 158 157 175	616 697 782 855 934	637 619 570 562 587	4,361 4,651 7,071 8,349 8,634	14,889 13,109 14,182 14,624 15,407	1,626 1,809 1,859 1,850 1,782	708 806 872 899 976	3,042 3,432 3,450 3,554 3,822	2,754 3,317 3,286 3,447 3,772	55 59 58 56 54	96 118 151 135 162	29,427 29,287 32,965 35,061 36,950
							(Annual	Percentage	Change)					
Staff Nurse	2003 2004 2005 2006 2007	-0.4% 0.6% 0.3% -1.0%	1.0% 8.0% 1.5% -0.6%	1.3% 1.2% -0.1% 0.0%	2.9% 2.7% 2.0% 0.0%	13.7% -0.3% 3.7% 2.8%	-0.2% 10.4% 0.1% 1.8%	5.8% 3.0% 1.2% -0.5%	-0.9% 0.4% -0.6% 1.2%	7.2% 3.6% -2.2% 6.0%	0.8% -2.0% 3.2% 3.2%	-4.7% 7.9% 8.3% 1.3%	-46.6% -3.3% 15.2% -2.0%	4.5% 3.8% 1.3% 2.3%
Manager	2003 2004 2005 2006 2007	6.8% 2.5% -3.8% 4.5%	-0.8% -16.9% -14.7% -2.8%	-1.4% -3.7% -0.9% -2.9%	12.8% 5.4% 4.9% 2.6%	-56.7% -0.9% 3.6% 1.0%	3.1% -1.0% 3.1% 0.6%	7.9% -4.6% -1.9% 2.6%	0.9% -2.7% -6.5% 4.7%	6.2% 0.2% 3.0% 8.9%	5.5% 0.0% 5.0% 5.3%	10.0% 18.2% 0.0% 11.5%	5.3% 8.9% -5.8% 9.9%	-21.5% -0.9% 2.2% 2.4%
Other Positions	2003 2004 2005 2006 2007	4.8% -2.8% 8.9% 12.6%	1.6% 22.5% -0.6% 11.5%	13.1% 12.2% 9.3% 9.2%	-2.8% -7.9% -1.4% 4.4%	6.6% 52.0% 18.1% 3.4%	-12.0% 8.2% 3.1% 5.4%	11.3% 2.8% -0.5% -3.7%	13.8% 8.2% 3.1% 8.6%	12.8% 0.5% 3.0% 7.5%	20.4% -0.9% 4.9% 9.4%	7.3% -1.7% -3.4% -3.6%	22.9% 28.0% -10.6% 20.0%	-0.5% 12.6% 6.4% 5.4%
							(Percei	ntage Distri	ibution)					
Staff Nurse	2003 2004 2005 2006 2007	80.7% 79.7% 79.8% 79.5% 77.9%	72.0% 72.2% 74.4% 76.4% 75.6%	80.2% 79.8% 79.5% 78.9% 78.5%	81.2% 80.9% 81.3% 81.3% 80.8%	75.4% 84.6% 81.2% 79.8% 79.9%	75.3% 76.8% 77.6% 77.0% 76.6%	75.3% 74.5% 75.0% 75.4% 75.6%	82.5% 81.4% 81.0% 81.1% 80.3%	80.5% 80.0% 80.5% 79.7% 79.4%	82.4% 80.5% 80.3% 80.0% 79.3%	73.9% 71.4% 72.2% 74.2% 74.2%	73.7% 78.1% 74.1% 78.4% 75.3%	77.4% 79.8% 79.3% 78.7% 78.3%
Manager	2003 2004 2005 2006 2007	9.8% 10.4% 10.6% 10.1% 10.5%	18.7% 18.4% 14.6% 12.6% 12.2%	12.5% 12.1% 11.5% 11.3% 10.9%	9.9% 10.8% 11.1% 11.4% 11.6%	16.9% 7.2% 6.9% 6.8% 6.6%	6.4% 6.8% 6.1% 6.3% 6.2%	8.2% 8.3% 7.8% 7.6% 7.8%	9.1% 9.1% 8.8% 8.3% 8.5%	6.6% 6.5% 6.3% 6.6% 6.7%	7.4% 7.6% 7.7% 7.8% 7.9%	7.0% 7.8% 8.6% 8.2% 9.0%	11.5% 8.8% 9.4% 8.1% 8.8%	9.8% 7.6% 7.2% 7.2% 7.2%
Other Positions	2003 2004 2005 2006 2007	9.5% 9.9% 9.6% 10.4% 11.6%	9.3% 9.4% 10.9% 11.0% 12.2%	7.3% 8.1% 9.0% 9.7% 10.6%	8.9% 8.4% 7.6% 7.3% 7.6%	7.8% 8.2% 12.0% 13.4% 13.5%	18.3% 16.5% 16.3% 16.7% 17.2%	16.5% 17.2% 17.2% 17.0% 16.5%	8.4% 9.5% 10.2% 10.6% 11.3%	12.9% 13.5% 13.2% 13.8% 13.9%	10.2% 11.9% 12.0% 12.2% 12.8%	19.2% 20.8% 19.2% 17.6% 16.8%	14.8% 13.1% 16.5% 13.5% 15.9%	12.8% 12.6% 13.6% 14.1% 14.5%

Notes

Non-response for *position* element (% of RN workforce): 2003, n=11,794 (4.9%); 2004, n=13,885 (5.6%); 2005, n=7,971 (3.2%); 2006, n=5,643 (2.2%); 2007, n=2,969 (1.2%).

Staff nurses include staff nurse/community health nurse.

Managers include chief nursing officer/chief executive officer, director/assistant director, manager/assistant manager.

Other positions include instructor/professor/educator, researcher, consultant, clinical specialist, nurse midwife, nurse practitioner and other. Totals may not sum to 100% due to rounding.

In 2006, in the Northwest Territories and Nunavut, relief nurses identified themselves under the category other position.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Area of Responsibility

The proportion of the registered nursing workforce in direct care ranged from 91.3% in Alberta and 90.1% in Ontario to 86.5% in Manitoba and 86.8% in Quebec. Many health human resource planners are interested in these totals, as the numbers represent RNs providing services directly to patients.

⁻ Data are not applicable or do not exist.

Areas of responsibility covered by RNs that fall outside of direct care include administration, education and research. The proportion of RNs employed in administration in 2007 was highest in Quebec (8.2%) and the Yukon (9.1%) and lowest in Newfoundland and Labrador, Alberta and British Columbia (less than 5.0%).

Overall, RNs who provide direct care to patients are younger than RNs in administration, education and research. In 2007, the average age was 44.6 years for RNs in direct care, 49.2 years for RNs working in administration, 48.5 years for RNs working in education and 46.5 years for RNs working in research.

Table 7 Registered Nursing Workforce, by Area of Responsibility, Canada, 2007

	Counts	Percentage
Direct Care		
Medical/Surgical	43,258	17.1%
Geriatric/Long-Term Care	26,044	10.3%
Critical Care (Burn)	18,604	7.4%
Emergency Room	16,015	6.3%
Maternal/Newborn	14,192	5.6%
Psychiatric/Mental Health	13,255	5.2%
Operating Room	12,056	4.8%
Community Health	11,251	4.5%
Nursing in Several Clinical Areas	9,801	3.9%
Ambulatory Care	8,172	3.2%
Home Care	7,316	2.9%
Pediatric	6,973	2.8%
Public Health	5,824	2.3%
Rehabilitation	3,888	1.5%
Oncology	3,129	1.2%
Occupational Health	3,020	1.2%
Telehealth	935	0.4%
Other Patient Care	21,231	8.4%
Total Direct Care	224,964	89.0%
Administration		
Nursing Service	11,148	4.4%
Nursing Education	353	0.1%
Other Administration	5,521	2.2%
Total Administration	17,022	6.7%
Education		
Teaching - Students	4,496	1.8%
Teaching — Employees	852	0.3%
Teaching - Patients/Clients	643	0.3%
Other Education	2,820	1.1%
Total Education	8,811	3.5%
Research		
Nursing Reseach Only	910	0.4%
Other Research	1,025	0.4%
Total Research	1,935	0.8%
Total	252,732	100.0%

Notes

Non-response for area of responsibility element (% of RN workforce): n = 5,229 (2.0%).

Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

In 2007, the greatest proportion of RNs worked in medical/surgical and geriatric/long-term care. These areas are typically among the most frequently identified each year. The area of responsibility with the most RNs, medicine/surgery, also attracts the most recent graduates. In 2007, RNs in their first five years of nursing accounted for 32.7% of the RNs working in medicine/surgery. RNs who graduated more than 30 years ago represented 10.8% of medical/surgical RNs in 2007. The areas of responsibility most frequently identified by males in 2007 were psychiatry/mental health (14.3% of the workforce) and emergency care (10.2% of the workforce).

Demographic Trends: Sex and Age Composition of the Registered Nursing Workforce

Almost all RNs (94.2%) in the Canadian workforce were female in 2007, a proportion that has not changed significantly over five years. The proportion of males increased by only one-half of one percentage point over the period (see Table 8).

Additional information on RN demographic characteristics and trends by jurisdiction is available in the data tables on the CIHI website.

Table 8 Registered Nursing Workforce, by Sex, by Jurisdiction and Canada, 2003 to 2007

		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T./ Nun.	Canada
								(Count)						
Female	2003	5,205	1,328	8,239	6,893	56,811	81,911	9,537	8,233	23,207	26,427	267	602	228,660
	2004	5,215	1,342	8,338	7,086	57,673	82,557	10,065	8,208	24,678	26,938	263	829	233,192
	2005	5,252	1,405	8,447	7,220	58,008	85,553	10,215	8,255	25,351	26,415	276	860	237,257
	2006	5,271	1,390	8,479	7,354	58,166	86,093	10,290	8,180	25,704	27,361	289	943	239,520
	2007	5,311	1,396	8,513	7,392	58,915	86,854	10,209	8,347	26,366	28,410	291	955	242,959
Male	2003	225	45	259	293	5,683	3,276	497	270	830	1,284	23	70	12,755
	2004	237	35	264	289	5,782	3,542	563	273	922	1,351	20	101	13,379
	2005	244	38	286	306	5,819	3,876	596	294	1,004	1,399	26	97	13,985
	2006	244	38	311	326	5,848	3,968	612	300	1,048	1,479	35	90	14,299
	2007	263	39	330	334	6,040	4,124	616	322	1,161	1,649	31	93	15,002
							(Annual	Percentage	Change)					
Female	2003	-	-	-	-	-	-	-	-	-	-	-	_	_
	2004	0.2%	1.1%	1.2%	2.8%	1.5%	0.8%	5.5%	-0.3%	6.3%	1.9%	-1.5%	37.7%	2.0%
	2005	0.7%	4.7%	1.3%	1.9%	0.6%	3.6%	1.5%	0.6%	2.7%	-1.9%	4.9%	3.7%	1.7%
	2006	0.4%	-1.1%	0.4%	1.9%	0.3%	0.6%	0.7%	-0.9%	1.4%	3.6%	4.7%	9.7%	1.0%
	2007	0.8%	0.4%	0.4%	0.5%	1.3%	0.9%	-0.8%	2.0%	2.6%	3.8%	0.7%	1.3%	1.4%
Male	2003	-	-	-	-	-	-	-	-	_	-	-	-	-
	2004	5.3%	-22.2%	1.9%	-1.4%	1.7%	8.1%	13.3%	1.1%	11.1%	5.2%	-13.0%	44.3%	4.9%
	2005	3.0%	8.6%	8.3%	5.9%	0.6%	9.4%	5.9%	7.7%	8.9%	3.6%	30.0%	-4.0%	4.5%
	2006	0.0%	0.0%	8.7%	6.5%	0.5%	2.4%	2.7%	2.0%	4.4%	5.7%	34.6%	-7.2%	2.2%
	2007	7.8%	2.6%	6.1%	2.5%	3.3%	3.9%	0.7%	7.3%	10.8%	11.5%	-11.4%	3.3%	4.9%
							(Perce	ntage Distri	ibution)					
Female	2003	95.9%	96.7%	97.0%	95.9%	90.9%	96.2%	95.0%	96.8%	96.5%	95.4%	92.1%	89.6%	94.7%
	2004	95.7%	97.5%	96.9%	96.1%	90.9%	95.9%	94.7%	96.8%	96.4%	95.2%	92.9%	89.1%	94.6%
	2005	95.6%	97.4%	96.7%	95.9%	90.9%	95.7%	94.5%	96.6%	96.2%	95.0%	91.4%	89.9%	94.4%
	2006	95.6%	97.3%	96.5%	95.8%	90.9%	95.6%	94.4%	96.5%	96.1%	94.9%	89.2%	91.3%	94.4%
	2007	95.3%	97.3%	96.3%	95.7%	90.7%	95.5%	94.3%	96.3%	95.8%	94.5%	90.4%	91.1%	94.2%
Male	2003	4.1%	3.3%	3.0%	4.1%	9.1%	3.8%	5.0%	3.2%	3.5%	4.6%	7.9%	10.4%	5.3%
	2004	4.3%	2.5%	3.1%	3.9%	9.1%	4.1%	5.3%	3.2%	3.6%	4.8%	7.1%	10.9%	5.4%
	2005	4.4%	2.6%	3.3%	4.1%	9.1%	4.3%	5.5%	3.4%	3.8%	5.0%	8.6%	10.1%	5.6%
	2006	4.4%	2.7%	3.5%	4.2%	9.1%	4.4%	5.6%	3.5%	3.9%	5.1%	10.8%	8.7%	5.6%
	2007	4.7%	2.7%	3.7%	4.3%	9.3%	4.5%	5.7%	3.7%	4.2%	5.5%	9.6%	8.9%	5.8%

Notes

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplica Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

In 2007, the College of Registered Nurses of Manitoba submitted aggregate tables for sex.

Almost half of all male RNs in the workforce were employed in Quebec in 2007. In that year, 6,040 males accounted for 9.3% of the province's workforce. The territories also had high proportions of males in the workforce. In contrast, 2.7% of Prince Edward Island's RNs and 3.7% of the workforce in Nova Scotia and Saskatchewan were male. The average age of male RNs was 42.4 in 2007, compared to 45.2 for females.

Although male RNs constituted only 5.8% of the RN workforce in 2007, they accounted for 14.3% of all RNs employed in psychiatry/mental health. Interestingly, this increased proportion of males is also observed for registered psychiatric nurses (RPNs) regulated in the four western provinces. The proportion of male RPNs in Canada is more than 20%.

Generation Gaps

For the first time in recent history, the workforce spans four generations.¹ This presents significant challenges and opportunities for health human resource planners as well as for managers at the institutional level. Different strategies may be required to entice and motivate the members of each generation, requiring an understanding of each generation's unique set of characteristics, values and perceptions of the ideal workplace.²

According to the literature, members of the veteran generation (born between 1922 and 1945) value hard work and self-sacrifice and respect authority. The baby boomers (born between 1946 and 1964) tend to question authority and value status and are sometimes workaholics. The generation Xers (born between 1965 and 1980) tend toward self-reliance and value career security over job security, are accustomed to direct and immediate communication and are more interested in achieving work–life balance. Finally, the youngest generation in the RN workforce, generation Y (born after 1980), is made up of people who tend to be more goal-oriented, desire immediate feedback and favour meaningful work.

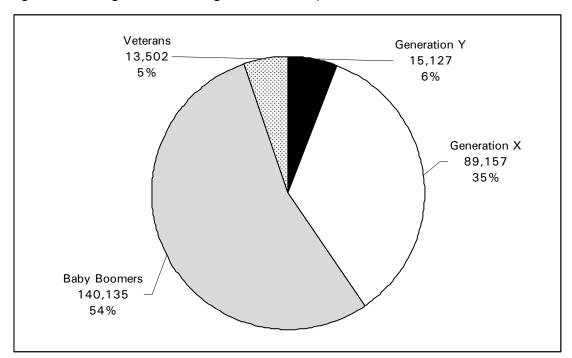


Figure 10 Registered Nursing Workforce, by Generation, Canada, 2007

Notes

Non-response for year of birth element (% of RN workforce): n = 36 (<0.1%).

Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Figure 10 clearly shows that the highest proportion of the registered nursing workforce in 2007 was comprised of the baby boomer generation (age 43 to 61). This generation included RNs as many as two decades away from retirement, as well as many within a few years of retirement. It can reasonably be expected that most of the veterans and a proportion of the baby boomers will leave the workforce in the next several years.

It is particularly important to track the older age groups in order to predict exit trends. In 2007, the majority of jurisdictions had their highest proportion of nurses in the 50-to-54 age group. These included the territories, British Columbia, Alberta, Quebec and Prince Edward Island. In Canada as a whole, each of the four baby boomer age groups accounts for about 15% of the workforce. Baby boomers account for close to 60% of the workforce, the largest group.

Table 9 Registered Nursing Workforce, by Age Group, by Jurisdiction and Canada, 2007

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T./ Nun.	Canada	
20-24	2.9%	1.4%	1.4%	2.0%	4.9%	1.0%	0.8%	1.7%	2.3%	1.4%	1.9%	1.5%	2.3%	
25-29	8.9%	8.0%	6.3%	7.9%	10.1%	7.1%	6.8%	8.0%	10.5%	7.6%	5.9%	9.5%	8.4%	Generation Y
30-34	11.4%	7.4%	7.0%	9.0%	10.7%	9.6%	8.9%	7.9%	10.4%	8.9%	11.2%	13.9%	9.7%	C
35-39	15.3%	11.7%	10.1%	12.4%	10.9%	12.0%	11.8%	10.8%	11.7%	11.0%	11.5%	12.2%	11.5%	Generation X
40-44	18.9%	14.4%	16.5%	17.4%	13.3%	14.8%	14.7%	12.8%	13.3%	12.5%	10.6%	11.5%	14.1%	
45-49	15.7%	15.9%	17.9%	16.5%	15.2%	14.6%	16.2%	16.1%	13.8%	14.9%	18.0%	12.8%	15.0%	Baby
50-54	14.4%	14.7%	19.0%	16.4%	16.9%	16.5%	18.4%	19.0%	15.6%	18.0%	17.7%	16.0%	16.9%	Boomers
55-59	8.4%	15.2%	12.7%	12.1%	12.2%	13.9%	13.7%	14.2%	12.3%	14.9%	16.8%	11.8%	13.2%	
60-64	3.2%	7.6%	6.8%	5.1%	4.3%	7.8%	6.4%	6.9%	7.4%	8.5%	6.2%	7.2%	6.6%	Veterans
65 +	0.8%	3.8%	2.2%	1.2%	1.4%	2.8%	2.2%	2.7%	2.6%	2.4%	0.3%	3.5%	2.2%	A CICI GIIS

Non-response for year of birth element (% of RN workforce): n = 36 (<0.1%).

In 2007, the College of Registered Nurses of Manitoba submitted aggregate tables for age group.

Totals may not sum to 100% due to rounding.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Average Age of the Workforce

Average age may be used in addition to age groupings to describe trends and to make comparisons between the RN workforce and other professions. As Figure 11 shows, the average age of selected health occupations increased over the period 2003 to 2007. The average age of the RN workforce increased over this period as well, but at a slower rate (less than one year change over five years). In addition to the aging of each worker, several variables affect the rate at which the average age of the workforce changes. They include the rates of entry into and exit from the workforce and the ages of the workers entering and exiting the workforce.

52.0 50.0 48.0 46.0 44.0 42.0 40.0 38.0 36.0 34.0 2003 2004 2005 2006 2007 Specialist Physicians - General Practitioners - Physiotherapists - Pharmacists — Occupational Therapists Registered Nurses Registered Psychiatric Nurses

Figure 11 Average Age of Registered Nursing Workforce Compared to Selected Health Occupations, Canada, 2003 to 2007

Occupational therapists data do not include Quebec and data for 43 registrants in Manitoba, where age was not provided. Physiotherapists data do not include Nova Scotia, the Northwest Territories and Nunavut.

Pharmacists data for New Brunswick, Quebec, Manitoba and Nunavut are not available. Findings do not include the Yukon, as age was not collected or submitted

In 2007, the College of Registered Nurses of Manitoba submitted aggregate tables for average age.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Sources

Regulated Nursing Database, Scott's Medical Database, Occupational Therapist Database, Physiotherapist Database, Pharmacist Database, Canadian Institute for Health Information; Labour Force Survey, Statistics Canada.

Table 10 shows the range of average ages across the country from 2003 to 2007. In each case, the change from the previous year is relatively small; over five years, the average age increased by one-half a year for all Canadian RNs. The largest increases were in the Yukon, at 1.6 years, and Prince Edward Island and Nova Scotia, where the average age increased by 1.5 years from 2003, followed closely by Newfoundland and Labrador (1.4 years). The average age fell slightly in Quebec and Alberta over the period.

Table 10 Average Age of the Registered Nursing Workforce, by Jurisdiction and Canada, 2003 to 2007

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T./ Nun.	Canada
						A	verage Age)					
2003	41.1	44.7	44.7	43.5	43.5	45.1	44.8	44.9	44.7	45.6	44.0	44.4	44.5
2004	41.6	45.6	45.2	43.7	43.5	45.1	45.0	45.4	44.6	45.8	45.1	43.7	44.6
2005	41.9	45.6	45.5	43.9	43.4	45.2	45.2	45.6	44.6	46.4	44.7	43.8	44.7
2006	42.2	45.8	45.8	44.2	43.5	45.6	45.4	45.9	44.8	46.4	44.7	44.3	44.9
2007	42.5	46.2	46.2	44.5	43.4	45.9	45.9	46.0	44.6	46.2	45.6	44.6	45.1
					Annu	al Increase	Decrease i	n Average	Age				
2003	_	_	_	_	_	-	-	_	_	_	_	_	_
2004	0.5	0.8	0.5	0.2	0.0	0.0	0.2	0.5	0.0	0.2	1.0	-0.7	0.1
2005	0.3	0.0	0.3	0.2	0.0	0.1	0.2	0.2	0.0	0.5	-0.3	0.1	0.1
2006	0.3	0.2	0.3	0.3	0.0	0.3	0.2	0.2	0.1	0.0	0.0	0.4	0.2
2007	0.3	0.4	0.3	0.2	-0.1	0.4	0.5	0.1	-0.2	-0.1	0.9	0.3	0.2

In 2007, the College of Registered Nurses of Manitoba submitted aggregate tables for average age.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time. Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Exiting and Entering the Workforce

Figure 12 shows three rates that influence the number of registered nurses under the age of 30 available to work each year. The rate of new registrations includes those RNs who registered in a specific jurisdiction in year x and who were not registered in that same jurisdiction in the previous year (year x - 1). The retention rate includes those RNs who registered in the same jurisdiction in both year x and in year x - 1. The exit rate represents those RNs who were registered in year x - 1 in a specific jurisdiction, but who did not register in the same jurisdiction in year x.

Note that the totals presented in Figure 12 and Table 11 represent all RNs who registered with a specific jurisdiction, not only the workforce. A new registrant may be a new graduate, an immigrant, an interprovincial migrant or an RN re-registering following an absence of one year or more. An exit may be an RN who has left the profession (either permanently or temporarily) or retired, or an RN who is registered in another jurisdiction or country in year x and may still be practising nursing in another province, territory or country.

Data are not applicable or do not exist.

New RN (<30) New RN (<30) New RN (<30) New RN (<30) registrations registrations registrations registrations in 2004 in 2005 in 2006 in 2007 Rate = 28.6%Rate = 27.9% Rate = 25.5%Rate = 25.6%(6.980)(7.120)(7.378)(7.322)2007 total 2003 total **RN** registrations Retention rate Retention rate Retention rate Retention rate **RN** registrations in age group <30 93.5% (23.247) 93.0% (24.635) 90.1% (25.513) 93.6% (21.830) in age group <30 28,616 from 2003 from 2004 from 2005 from 2006 23,333 (including 4,219 RNs who changed age groups) RNs (<30) RNs (<30) RNs (<30) RNs (<30) registered registered registered registered Legend: in 2003 + in 2004 + in 2005 in 2006 + **Total RN Registrations** not in 2004 not in 2005 not in 2006 not in 2007 (Age Group < 30) Exit rate = 6.5% Exit rate = 7.0%Exit rate = 9.9% (1,849) (1.503)(1.611)(1.882)RNs Who Did Not Register Within Same Jurisdiction 2004 total 2005 total 2006 total as Previous Year RN registrations RN registrations RN registrations

Figure 12 Registered Nurses Age Younger Than 30: Rate of New Registrations, Retention Rates and Exit Rates, Canada, 2003 to 2007

New registrations + retention rate may not add to total registrations, as some RNs changed age groups from one year to the next. Non-response for *age group* element (% of RN workforce): 2003, $n = 29 \ (<0.1\%)$; 2004, $n = 46 \ (<0.1\%)$; 2005, $n = 12 \ (<0.1\%)$; 2006, $n = 1 \ (<0.1)$; 2007, $n = 38 \ (<0.1\%)$.

in age group < 30

26,484

Rates will not sum to 100%.

CIHI collects data after the first six months of the 12-month registration period. This may result in 1% to 5% under-coverage (loss of new registrants who registered after month 6 of the registration period).

in age group <30

27,395

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

in age group < 30

24.858

Table 11 shows new registration rates and exit rates by province and by age group. In 2007, the Canadian entry rate into the RN workforce was 5.5% from the previous year, meaning that 5.5% of the total RN workforce was new to their jurisdiction of registration that year. Of these, 24.5% were in the under-30 age cohort.

Higher exit rates are seen in both the youngest and the oldest age groups. Given the low registration rates for the group of RNs over the age of 60, it can be concluded that a significant portion of the 11.9% of RNs over the age of 60 who did not re-register in 2007 (2006 exits) retired from nursing. The RNs under the age of 30 who did not re-register (6.6%) may have moved to another jurisdiction within or outside of Canada to continue practising nursing, left the profession temporarily to pursue education, taken a leave of absence or left the profession permanently. Note that many RNs who take a leave of absence or pursue further education maintain their registration and are thus not counted as exits.

The RNs in the age group 40 to 49 demonstrated the lowest exit rates between 2003 and 2007, indicating a low level of exits or mobility. It appears that most of the RNs in this age group tend to stay in the workforce, in the same jurisdiction, until at least age 50, above which the exit rate increases slightly. The higher rates and changes in rates of RNs in the north should be interpreted with caution as the numbers are small.

Table 11 Registered Nurses: Rate of New Registrations and Exit Rates, by Age Group, by Jurisdiction and Canada, 2003 to 2007

	Age Groups		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T./ Nun.	Canada
New	< 30	2004	27.1%	20.8%	31.8%	16.0%	25.9%	31.1%	35.6%	20.7%	31.6%	29.4%	42.9%	69.6%	28.6%
Registration		2005	25.1%	43.9%	39.1%	31.2%	24.1%	29.5%	31.4%	32.6%	33.9%	20.7%	51.9%	42.3%	27.9%
Rates		2006	27.0%	31.2%	36.6%	24.9%	24.4%	20.1%	28.9%	27.0%	30.9%	33.5%	42.4%	44.5%	25.5%
		2007	29.4%	27.7%	28.7%	24.2%	21.3%	22.1%	22.0%	28.2%	34.5%	36.9%	44.0%	52.1%	25.6%
	30-39	2004	7.0%	8.6%	9.5%	6.5%	5.0%	8.4%	9.2%	6.1%	11.6%	12.7%	17.5%	47.0%	8.4%
		2005	9.0%	11.5%	10.4%	6.5%	5.6%	10.6%	8.7%	7.3%	12.8%	12.9%	16.7%	22.3%	9.5%
		2006	8.3%	10.7%	10.2%	7.7%	6.2%	5.6%	8.7%	7.9%	11.0%	13.5%	16.2%	28.9%	7.7%
		2007	9.9%	15.6%	11.7%	9.0%	7.0%	4.5%	7.6%	9.4%	14.2%	16.0%	17.6%	23.4%	8.3%
	40-49	2004	1.9%	4.8%	3.5%	2.5%	1.6%	3.4%	3.7%	3.0%	4.5%	4.3%	6.7%	36.7%	3.2%
		2005	2.5%	5.5%	3.7%	2.5%	1.7%	4.8%	3.0%	2.9%	4.6%	3.9%	10.6%	20.7%	3.7%
		2006	1.8%	4.0%	3.6%	2.3%	1.7%	2.5%	2.5%	3.3%	3.9%	4.3%	14.0%	21.5%	2.8%
		2007	2.3%	4.6%	3.1%	2.6%	1.9%	2.1%	2.4%	2.7%	5.8%	5.2%	10.9%	17.8%	2.9%
	50-59	2004	1.3%	3.0%	3.0%	2.1%	0.9%	1.3%	2.0%	1.8%	2.8%	2.4%	8.2%	38.3%	1.7%
		2005	1.3%	3.8%	3.0%	1.8%	0.7%	1.8%	1.5%	1.9%	2.1%	2.5%	9.5%	16.6%	1.7%
		2006	1.5%	2.1%	2.4%	1.6%	1.2%	1.3%	1.4%	1.5%	2.3%	2.4%	17.7%	20.0%	1.7%
		2007	1.8%	4.2%	2.4%	1.8%	1.0%	1.1%	0.9%	1.8%	3.3%	2.9%	8.9%	20.1%	1.7%
	60+	2004	3.1%	6.1%	4.8%	2.5%	2.2%	1.0%	2.4%	1.2%	2.1%	2.8%	6.7%	19.2%	1.8%
		2005	1.6%	3.1%	2.5%	1.9%	1.4%	1.2%	1.4%	1.2%	1.8%	2.5%	12.5%	15.7%	1.6%
		2006	5.4%	3.5%	2.8%	2.1%	4.5%	1.3%	1.2%	1.7%	1.7%	2.2%	8.3%	23.0%	2.1%
		2007	5.6%	3.6%	1.9%	3.3%	2.9%	1.2%	1.2%	1.2%	2.2%	2.8%	4.8%	18.6%	1.9%
Exit Rates	< 30	2003	14.2%	19.0%	11.6%	7.9%	4.3%	4.3%	4.3%	8.1%	9.6%	11.4%	30.0%	23.0%	6.4%
		2004	12.1%	8.3%	14.9%	11.1%	4.5%	4.6%	5.8%	9.9%	9.0%	9.8%	19.0%	25.0%	6.5%
		2005	15.0%	18.2%	13.7%	8.4%	4.8%	4.6%	8.8%	8.2%	11.9%	10.8%	14.8%	24.3%	7.0%
		2006	14.5%	19.6%	15.7%	8.0%	5.5%	4.3%	4.6%	6.4%	10.8%	9.6%	36.4%	21.8%	6.9%
	30-39	2003	6.2%	7.3%	6.3%	4.1%	2.9%	2.7%	2.8%	5.7%	7.3%	9.4%	13.1%	21.9%	4.4%
		2004	5.1%	7.6%	6.4%	4.9%	2.9%	2.9%	3.6%	6.7%	7.5%	8.4%	9.5%	19.7%	4.4%
		2005	5.8%	6.9%	7.3%	5.0%	3.2%	2.6%	6.3%	6.1%	8.2%	8.0%	7.6%	24.7%	4.6%
		2006	6.1%	9.6%	7.9%	3.7%	3.6%	2.5%	3.1%	4.3%	9.5%	6.7%	18.9%	25.6%	4.5%
	40-49	2003	2.4%	3.7%	3.0%	2.6%	1.2%	2.0%	1.8%	3.2%	3.1%	3.1%	11.2%	18.9%	2.2%
		2004	2.8%	3.7%	2.7%	1.9%	1.2%	2.1%	2.0%	3.1%	3.3%	2.6%	5.7%	19.6%	2.2%
		2005	2.3%	4.3%	3.1%	2.1%	1.1%	1.8%	2.8%	2.7%	3.8%	3.2%	11.5%	19.3%	2.2%
		2006	2.5%	5.8%	2.6%	2.7%	1.4%	1.6%	1.9%	2.3%	3.7%	2.5%	10.0%	23.6%	2.1%
	50-59	2003	5.9%	4.2%	5.1%	5.4%	5.9%	3.1%	3.2%	4.1%	3.5%	4.6%	11.8%	20.6%	4.2%
		2004	5.5%	5.1%	4.9%	4.3%	7.9%	3.2%	3.7%	4.1%	4.2%	4.5%	12.9%	15.9%	4.8%
		2005	6.9%	6.7%	4.1%	5.7%	6.8%	2.9%	4.4%	3.8%	4.7%	4.5%	10.7%	16.6%	4.5%
		2006	5.8%	6.3%	4.8%	4.5%	7.1%	2.4%	3.2%	3.6%	5.1%	3.7%	7.3%	17.5%	4.3%
	60+	2003	18.5%	10.9%	13.8%	18.3%	17.7%	11.3%	12.6%	15.4%	12.3%	18.4%	0.0%	18.6%	13.7%
		2004	19.1%	6.1%	15.0%	16.7%	23.8%	11.6%	13.0%	13.5%	12.3%	15.7%	26.7%	30.1%	14.5%
		2005	27.4%	15.4%	13.5%	17.3%	20.3%	11.5%	15.7%	18.0%	13.8%	16.2%	29.2%	12.9%	14.3%
		2006	18.2%	14.1%	15.0%	14.9%	20.9%	9.9%	14.0%	14.7%	16.6%	15.4%	20.8%	26.0%	13.6%

Notes

Rates will not sum to 100%.

CIHI collects data after the first six months of the 12-month registration period. This may result in 1% to 5% under-coverage (loss of new registrants who registered after month 6 of the registration period).

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

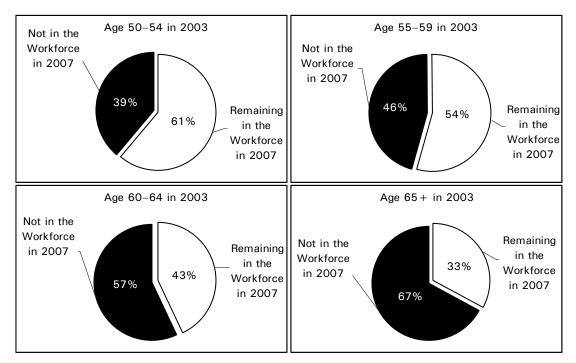
Regulated Nursing Database, Canadian Institute for Health Information.

Aging of Baby Boomers

Figure 13 illustrates the change to four age cohorts of RNs over time. Each cohort was tracked in 2003 and in 2007. Of those who were between 50 and 54 in 2003, 39% had left the workforce by 2007; of those age 65 + in 2003, 67% had left the workforce by 2007. While leaving the workforce in a specific jurisdiction includes interprovincial moves, it can be reasonably assumed that in these age groups a significant proportion of the exits represent retirements.

Although the exit rate for the oldest cohort was the highest, the largest changes to the workforce would have come from the departure of the cohort age 50 to 54 in 2003, due to the size of this cohort (which included close to 16,000 RNs across Canada).

Figure 13 Registered Nurses Aged 50 + Exiting or Remaining in the Workforce, Canada, 2003 and 2007



Notes

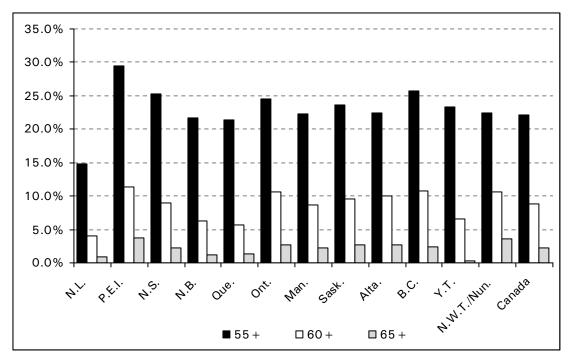
Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Figure 14 highlights the proportion of the RN workforce in each province/territory at or above three typical ages of retirement in 2007: 55, 60 and 65. Note that this illustration is cumulative. An RN at age 65 is counted in all three categories, and an RN at age 60 is counted in two categories.

Figure 14 Registered Nursing Workforce, by Age Groups 55+, 60+ and 65+, by Jurisdiction and Canada, 2007



Notes

Totals may not sum to 100% due to rounding.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Years Since Graduation

Since employment patterns of RNs change as their careers evolve, assumptions and analyses based on age indicators alone may be incomplete. It may be useful as well to consider the number of years since graduation from an RN program.

Figure 15 illustrates the distribution of RNs by number of years since graduation. Note that this indicates the maximum number of years an RN could have been in the workforce, and does not necessarily reflect the actual number of years worked, because time spent out of the workforce (such as in continuing education or family leave) is not accounted for.

100.0% 90.09 80.0% 70.0% 28.6% 24.3% 60.0% 28 26. 40.0% 30.0% 30.0% 20.0% 10.0% 2003 2007 2003 2007 2003 2007 2003 2007 2003 | 2007 | 2003 | 2007 | 2003 | 2007 | 2003 | 2007 | 2003 | 2007 | 2003 | 2007 | 2003 | 2007 | 2003 | 2007 | 2003 | 2007 | 2003 | 2007 | 2003 | 2007 N.S. N.B. Ont. Man. Sask. Alta. B.C. Y.T. NWT./Nun. Canada Que. □ 11-20 □ 21-30

Figure 15 Registered Nursing Workforce, by Years Since RN Graduation, by Jurisdiction and Canada, 2003 and 2007

Non-response for year of graduation element (% of RN workforce): 2003, n = 3,286 (0.01%); 2007, n = 73 (<0.1%). Totals may not sum to 100% due to rounding.

Northwest Territories and Nunavut data are combined as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

 $See\ Chapter\ 5\ (Methodological\ Notes)\ for\ more\ information\ regarding\ collection\ and\ comparability\ of\ data.$

Source

Regulated Nursing Database, Canadian Institute for Health Information.

In general, the provincial/territorial workforces with a higher proportion of RNs nearing the end of their careers are the same in which the average age was highest, except for British Columbia, where the average age was 46.2 years. The trend from 2003 to 2007 shows an increase in every province in the group 31 + years since graduation. The cohort 0 to 10 years since graduation increased noticeably more in Quebec and Alberta than in other jurisdictions, and the proportion of RNs in this youngest cohort decreased in Newfoundland and Labrador and Manitoba.

Education Trends: Lifelong Learning

Entry-to-Practice Education

The education programs that qualify individuals to become registered nurses in Canada, and those available to RNs, have evolved over the past five decades. During the 1960s and 1970s, many nursing students graduated from a two- or three-year hospital-based program, earning a diploma in nursing. By the 1990s, most education programs in Canada were offered either at community colleges (three-year diploma) or at universities (four-year baccalaureate). In addition to completing the entry-to-practice education requirements, all RNs, except those registering in Quebec, must pass a national exam administered by the Canadian Nurses Association.

Table 12 shows the different stages of the transition from diploma to baccalaureate entry-to-practice requirements for RNs in each jurisdiction. Additional information on RN educational characteristics and trends by jurisdiction is available in the data tables on the CIHI website.

Table 12 Status of Baccalaureate Entry-to-Practice Requirements for Registered Nurses, Canada

Jurisdiction	Target Year and Status
Atlantic Provinces (Prince Edward Island, Newfoundland and Labrador, New Brunswick, Nova Scotia)	1998 completed
Saskatchewan	2000 completed
Ontario	2005 completed
British Columbia	2005 completed
Manitoba	2005 in progress: a few diploma programs remain in Manitoba
Alberta	2009 in progress: Alberta converted to degree programs with a diploma exit option for some students and has proposed that the transition to baccalaureate be complete by the end of December 2009
Northwest Territories and Nunavut	2010 in progress: the Registered Nurses Association of the Northwest Territories and Nunavut (RNANT/NU) will complete the transition to baccalaureate as entry to practice by the year 2010
Quebec	In progress: Quebec continues to provide diploma programs while supporting the development of baccalaureate partnerships between Collèges d'enseignement général et professionnel (CEGEP) and universities
Yukon Territory	The Yukon has no entry-level educational programs

Source

Canadian Nurses Association, 2007.

Of the 257,961 RNs employed in nursing in Canada in 2007, 19.5% earned a baccalaureate before entering practice. The percentage of RNs entering practice with a diploma decreased to 80.4% in 2007 from 86.1% in 2003, while the percentage earning a master's degree before entering practice remained at 0.05%.

Graduation data collected through the National Student and Faculty Survey of Canadian Schools of Nursing released by the Canadian Nurses Association (CNA) and the Canadian Association of Schools of Nursing (CASN) illustrate the trend toward baccalaureate education in nursing, as the number of students graduating from nursing diploma programs continues to decrease (see Figure 16).

8,000
7,000
6,000
4,000
3,000
1,000
1,000
Year of Graduation

— Diploma Program

— Baccalaureate Program

Figure 16 Registered Nurses Graduating From Diploma and Baccalaureate Programs, Canada, 1997 to 2007

Notes

Graduate refers to the number of students who successfully graduated from the program. Graduate data are collected on a calendar year basis. Diploma includes diploma, diploma exit, diploma bridge to RN, DEC.

Baccalaureate includes standard, generic, collaborative, accelerated, fast track, advanced, compressed, technology in nursing and psychiatric nurse to RN baccalaureate.

For more detailed notes, please refer to the Student and Faculty Survey of Canadian Schools of Nursing Survey methodology document available from the CNA and CASN.

Sources

Canadian Nurses Association and Canadian Association of Schools of Nursing.

Higher Education for Registered Nurses

In 2007, a total of 91,509 RNs in the workforce had obtained a baccalaureate as their highest education in nursing (see Table 13).

Table 13 Registered Nursing Workforce, by Highest Education in Nursing, by Jurisdiction and Canada, 2003 to 2007

		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T./ Nun.	Canada
								(Count)						
Diploma	2003	3,932	954	5,936	4,522	39,559	64,811	7,060	6,174	15,024	18,304	159	450	166,885
•	2004	3,867	945	5,889	4,436	40,231	64,508	7,227	6,013	15,511	18,034	158	594	167,413
	2005	3,788	928	5,813	4,367	38,375	65,850	7,205	5,826	15,436	17,293	159	678	165,718
	2006	3,678	884	5,578	4,317	38,179	64,319	7,055	5,576	15,142	17,299	163	706	162,896
	2007	3,575	868	5,438	4,162	38,141	62,025	6,905	5,497	15,019	16,653	156	686	159,125
Baccalaureate	2003	1,406	401	2,362	2,523	21,545	18,587	2,749	2,238	8,325	8,634	12†	20†	69,105
	2004	1,478	409	2,502	2,787	21,852	19,655	3,168	2,366	9,340	9,417	12†	31†	73,407
	2005	1,594	486	2,698	2,998	23,803	21,432	3,385	2,596	10,110	9,666	138	265	79,171
	2006	1,706	517	2,954	3,175	24,156	23,384	3,595	2,763	10,820	10,618	152	312	84,152
	2007	1,852	531	3,137	3,378	25,064	26,325	3,668	3,005	11,715	12,332	158	344	91,509
Master's/Doctorate	2003	92	18	200	141	1,390	1,789	225	91	688	773	*	1†	5,425
	2004	107	23	211	152	1,372	1,936	233	96	744	838		2†	5,736
	2005	113	29	222	161	1,649	2,147	221	121	801	855	5	12	6,336
	2006 2007	131 147	27 32	258 268	188 186	1,679	2,358	252 252	136 163	781 781	923 1,069	9	14 18	6,756
	2007	147	32	208	186	1,750	2,628	252	163	781	1,069	8	18	7,302
							(Annual	Percentage	Change)					
Diploma	2003	-	-	-	-	-	-	-	-	-	-	-	-	-
	2004	-1.7%	-0.9%	-0.8%	-1.9%	1.7%	-0.5%	2.4%	-2.6%	3.2%	-1.5%	-0.6%	32.0%	0.3%
	2005	-2.0%	-1.8%	-1.3%	-1.6%	-4.6%	2.1%	-0.3%	-3.1%	-0.5%	-4.1%	0.6%	14.1%	-1.0%
	2006	-2.9%	-4.7%	-4.0%	-1.1%	-0.5%	-2.3%	-2.1%	-4.3%	-1.9%	0.0%	2.5%	4.1%	-1.7%
	2007	-2.8%	-1.8%	-2.5%	-3.6%	-0.1%	-3.6%	-2.1%	-1.4%	-0.8%	-3.7%	-4.3%	-2.8%	-2.3%
Baccalaureate	2003	-	-	-	-	-	-	-	-	-	-	-	-	-
	2004	5.1%	2.0%	5.9%	10.5%	1.4%	5.7%	15.2%	5.7%	12.2%	9.1%	†	t	6.2%
	2005	7.8%	18.8%	7.8%	7.6%	8.9%	9.0%	6.8%	9.7%	8.2%	2.6%	10.10	† 47.70/	7.9%
	2006 2007	7.0% 8.6%	6.4% 2.7%	9.5% 6.2%	5.9% 6.4%	1.5% 3.8%	9.1% 12.6%	6.2% 2.0%	6.4% 8.8%	7.0% 8.3%	9.8% 16.1%	10.1% 3.9%	17.7% 10.3%	6.3% 8.7%
		0.0%	2.770	0.270	0.4%	3.0%	12.0%	2.0%	0.0%	0.370	10.170	3.9%	10.3%	0.770
Master's/Doctorate	2003					_						-	-	
	2004	16.3%	27.8%	5.5%	7.8%	-1.3%	8.2%	3.6%	5.5%	8.1%	8.4%	†	†	5.7%
	2005	5.6%	26.1%	5.2%	5.9%	20.2%	10.9%	-5.2%	26.0%	7.7%	2.0%	1	10.70	10.5%
	2006	15.9%	-6.9%	16.2%	16.8%	1.8%	9.8%	14.0%	12.4%	-2.5%	8.0%	80.0%	16.7%	6.6%
	2007	12.2%	18.5%	3.9%	-1.1%	4.2%	11.5%	0.0%	19.9%	0.0%	15.8%	-11.1%	28.6%	8.1%
							(Perce	ntage Distri	ibution)					
Diploma	2003	72.4%	69.5%	69.9%	62.9%	63.3%	76.1%	70.4%	72.6%	62.5%	66.1%	54.8%	67.0%	69.1%
	2004	70.9%	68.6%	68.5%	60.1%	63.4%	74.9%	68.0%	70.9%	60.6%	63.7%	56.0%	64.1%	67.9%
	2005	68.9%	64.3%	66.6%	58.0%	60.1%	73.6%	66.6%	68.2%	58.6%	62.2%	52.6%	71.0%	66.0%
	2006	66.7%	61.9%	63.5%	56.2%	59.6%	71.4%	64.7%	65.8%	56.6%	60.0%	50.3%	68.4%	64.2%
	2007	64.1%	60.7%	61.5%	53.9%	58.7%	68.2%	63.8%	63.4%	54.6%	55.4%	48.4%	65.5%	61.7%
Baccalaureate	2003	25.9%	29.2%	27.8%	35.1%	34.5%	21.8%	27.4%	26.3%	34.6%	31.2%	t	t	28.6%
	2004	27.1%	29.7%	29.1%	37.8%	34.4%	22.8%	29.8%	27.9%	36.5%	33.3%	†	†	29.8%
	2005	29.0%	33.7%	30.9%	39.8%	37.3%	24.0%	31.3%	30.4%	38.4%	34.8%	45.7%	27.7%	31.5%
	2006	30.9%	36.2%	33.6%	41.3%	37.7%	26.0%	33.0%	32.6%	40.5%	36.8%	46.9%	30.2%	33.2%
	2007	33.2%	37.1%	35.5%	43.7%	38.6%	28.9%	33.9%	34.7%	42.6%	41.0%	49.1%	32.8%	35.5%
Master's/Doctorate	2003	1.7%	1.3%	2.4%	2.0%	2.2%	2.1%	2.2%	1.1%	2.9%	2.8%	t	†	2.2%
	2004	2.0%	1.7%	2.5%	2.1%	2.2%	2.2%	2.2%	1.1%	2.9%	3.0%	1 70/	1 201	2.3%
	2005	2.1%	2.0%	2.5%	2.1%	2.6%	2.4%	2.0%	1.4%	3.0%	3.1%	1.7%	1.3%	2.5%
	2006 2007	2.4% 2.6%	1.9% 2.2%	2.9% 3.0%	2.4% 2.4%	2.6% 2.7%	2.6% 2.9%	2.3% 2.3%	1.6% 1.9%	2.9% 2.8%	3.2% 3.6%	2.8% 2.5%	1.4% 1.7%	2.7% 2.8%
	2007	2.0%	2.270	3.0%	2.470	2.1%	2.5%	2.3%	1.9%	2.0%	3.0%	2.5%	1.770	2.0%

Notes

- Data are not applicable or do not exist.
- * Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.
- † Digit suppressed to ensure confidentiality.

Non-response for highest education in registered nursing element (% of RN workforce): 2004, n=15 (<0.1%); 2005, n=17 (<0.1%); 2006, n=15 (<0.1%); 2007, n=25 (<0.1%).

Master's/doctorate are combined to avoid cell suppression due to small cells.

In 2003, the stated total included 5,150 RNs with a master's and 275 RNs with a doctorate.

In 2007, the stated totals included 6,870 RNs with a master's and 432 RNs with a doctorate in nursing.

Totals may not sum to 100% due to rounding.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time. Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

How many RNs return to school after completing their entry-to-practice education? The largest proportion of the workforce in 2007 seeking advanced education was the group returning for a post-diploma baccalaureate. Of these, 48.1% (43,980) initially earned a diploma in nursing, then returned to school for a baccalaureate; the remaining 51.9% (47,522) earned a baccalaureate before entering nursing practice. In addition, a total of 7,300 RNs obtained either a master's degree or doctorate as their highest education in nursing.

Average Age at Graduation

The age at which a student graduates from a nursing program and is eligible to enter the RN workforce is an important indicator of the number of years an average RN will contribute to the workforce. As RNs enter the workforce later, their numbers of years of service will be reduced unless they stay later at the end of their careers.

The trend of increasing age at graduation slowed since the changes seen prior to the early 1990s. However, the proportion of RNs graduating and entering the workforce at the age of 30 or older fluctuated since 2003. In 2007, 26.3% of the workforce who had graduated in the previous three years were over the age of 30 when they graduated.

Table 14 Registered Nursing Graduates and Average Age at Graduation, by Range of Graduation Years, Canada, 1980 to 2007

Graduation Year	Number of Graduates	Average Age at Graduation
1980-1984	30,865	23.0
1985-1989	34,633	24.7
1990-1994	33,991	26.2
1995-1999	27,537	26.1
2000-2004	31,046	26.8
2005 +	14,234	26.5

Notes

Manitoba RN graduate age data for 2007 are excluded from average age at graduation calculation; graduate counts include Manitoba RN graduates to reflect total RN workforce.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Canadian Nurses Association Certification Program

Since 2003, the CNA has offered a voluntary national certification program in a broad selection of specialties. The certification program has grown both in the number of programs available and in the number of RNs writing the qualifying examinations.

When looking at Table 15, keep in mind that certification is not mandatory, that all areas of specialty do not have certification programs and that RNs may have more than one specialty. Accordingly, the total number certified does not represent all RNs working in a specific area of responsibility. About 5% of the RNs in the workforce currently have certification in one or more areas of responsibility.

Table 15 Registered Nurses With Valid CNA Certification, by Specialty, Canada, 2003 to 2007

	2003	2004	2005	2006	2007
Cardiovascular	415	546	660	713	722
Community Health	_	_	_	148	216
Critical Care	1,154	1,235	1,263	1,223	1,165
Critical Care—Pediatrics	34	46	61	94	104
Emergency	1,292	1,305	1,353	1,307	1,323
Gastroenterology	_	87	148	171	205
Gerontology	1,114	1,628	1,822	1,937	1,989
Hospice Palliative Care	_	491	756	916	1,103
Nephrology	877	921	963	1,019	1,052
Neuroscience	163	192	207	223	237
Occupational Health	1,000	988	952	926	908
Oncology	1,081	1,137	1,231	1,332	1,323
Orthopedics	_	_	_	73	125
Perinatal	488	578	619	621	643
Perioperative	1,772	1,777	1,672	1,585	1,553
Psychiatric/Mental Health	1,687	1,763	1,761	1,729	1,737
Rehabilitation	_	_	_	71	121
Total	11,374	12,694	13,467	14,088	14,526

Note

Source

Canadian Nurses Association, Regulatory Policy Department.

Mobility Trends: A Mobile Workforce

Regulated nurses are in demand in Canada and around the world. As a result, graduates from regulated nursing programs often have numerous options as to where they will practise. Canadian graduates may choose to remain in their current province or territory, to migrate to another Canadian province or territory or to emigrate to another country. International graduates may choose to immigrate to Canada, either through their own initiative or through a provincial nursing recruitment program.

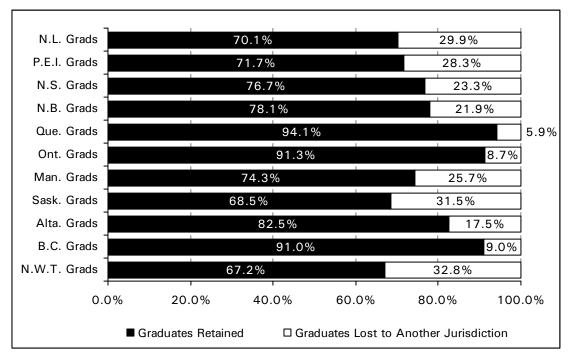
As CIHI does not collect citizenship or immigration data, the mobility trends in this chapter related to interprovincial and international mobility are based on indicators developed by CIHI using data on employment, location of residence and location of graduation. Additional information on RN mobility trends is available in the data tables on the CIHI website.

Data are not applicable or do not exist.

Migration Within Canada

Each provincial and territorial workforce combines registered nursing graduates from within the jurisdiction, graduates from other Canadian jurisdictions and graduates from outside the country. Overall, nearly 9 out of 10 graduates (87.5%) of Canadian registered nursing programs who were working in Canada in 2007 either did not move after graduation or eventually returned to their jurisdiction of graduation.

Figure 17 Registered Nursing Workforce by Jurisdiction of Graduation and Registration, Canada, 2007



Notes

Includes only graduates of Canadian nursing programs employed in Canada in 2007 (N = 235,634).

Totals may not sum to 100% due to rounding.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

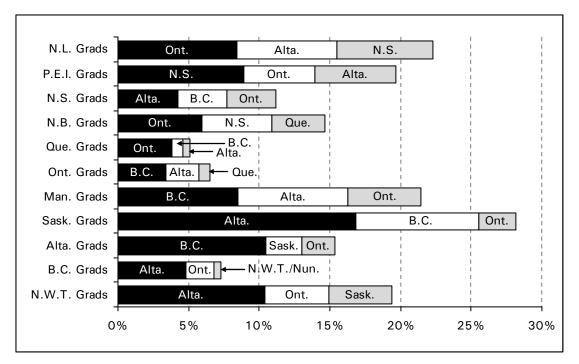
See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Among Canadian graduates employed in 2007, those graduating from registered nursing programs in Quebec (94.1%), Ontario (91.3%) and British Columbia (91.0%) were the most likely to be employed in their province of graduation (see Figure 17). In contrast, among the in-province graduates from registered nursing programs in Saskatchewan who were employed in Canada in 2007, 68.5% were employed in the province. Similarly, 70.1% of Newfoundland and Labrador graduates and 71.7% of Prince Edward Island graduates remained in those provinces.

Figure 18 shows the top three most frequent destinations for those who moved sometime between their graduation year and 2007, as a comparison of the jurisdiction of graduation to the jurisdiction of current registration. The data do not account for mobility and migration in the intervening years.

Figure 18 Top Three Destinations for Registered Nursing Graduates by Jurisdiction of Graduation, Canada, 2007



Notes

Includes only graduates of Canadian nursing programs employed in Canada in 2007 (N = 235,634).

Totals may not sum to 100% due to rounding.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

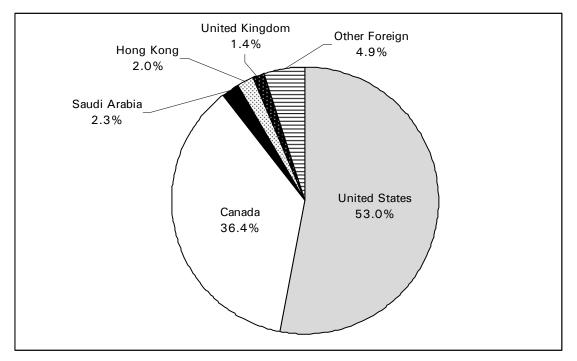
Overall, the provinces of British Columbia, Alberta and Ontario figure prominently as destinations for graduates from across the country. In contrast, only 1.6% of the RN workforce in Quebec and 5.8% in Newfoundland and Labrador graduated from Canadian nursing programs outside their province of registration, the lowest rates in the country.

Working Outside Province/Territory of Registration

RNs who work outside their province or territory of registration may be working outside Canada or in another jurisdiction within Canada. Note that CIHI can report on RNs working outside Canada only if they maintain registration with a Canadian province or territory.

Figure 19 illustrates the top destinations for RNs who are registered in a Canadian province or territory but working either abroad or in another jurisdiction in Canada. Of the 6,839 RNs who are not working in their province/territory of registration, 3,628 (53.0%) are employed in the United States, with an additional 10.5% employed in other locations.

Figure 19 Registered Nurses Working Outside of Jurisdiction of Registration, by Country of Employment, Canada, 2007



Notes

Includes only those who worked outside of their jurisdiction of registration (N = 6,839) in 2007.

Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

International Registered Nursing Graduates

In the absence of citizenship and immigration data, CIHI uses the location of graduation as an indicator of trends in immigration. The assumption is made that a registered nurse who studied outside of Canada immigrated, but the total number does include Canadian citizens who studied abroad.

Table 16 Registered Nursing Workforce, by Location of Graduation, by Jurisdiction and Canada, 2003 to 2007

		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T./ Nun.	Canada
								(Count)						
Canada	2003	5,313	1,344	8,304	7,100	60,959	75,425	9,447	8,124	21,377	23,421	270	590	221,674
	2004	5,346	1,343	8,395	7,277	61,872	76,121	9,957	8,124	22,726	23,915	261	827	226,164
	2005	5,390	1,409	8,526	7,436	62,268	78,507	10,087	8,209	23,511	23,420	278	865	229,906
	2006	5,411	1,396	8,573	7,579	62,489	78,687	10,169	8,169	23,921	24,297	298	930	231,919
	2007	5,481	1,404	8,631	7,613	63,425	79,521	10,103	8,341	24,628	25,247	296	946	235,636
International	2003	91	25	194	85	1,535	9,682	587	266	931	4,143	20	78	17,637
	2004	106	30	207	98	1,583	9,878	671	251	1,090	4,234	22	98	18,268
	2005	103	32	207	90	1,559	10,684	724	239	1,167	4,258	24	90	19,177
	2006	96	30	217	100	1,525	11,231	733	224	1,190	4,414	26	101	19,887
	2007	91	29	212	107	1,528	11,320	722	240	1,259	4,686	25	100	20,319
							(Annual	Percentage	Change)					
Canada	2003	_	_	_	_	_	_	_	_	_	_	_	_	-
	2004	0.6%	-0.1%	1.1%	2.5%	1.5%	0.9%	5.4%	0.0%	6.3%	2.1%	-3.3%	40.2%	2.0%
	2005	0.8%	4.9%	1.6%	2.2%	0.6%	3.1%	1.3%	1.0%	3.5%	-2.1%	6.5%	4.6%	1.7%
	2006	0.4%	-0.9%	0.6%	1.9%	0.4%	0.2%	0.8%	-0.5%	1.7%	3.7%	7.2%	7.5%	0.9%
	2007	1.3%	0.6%	0.7%	0.4%	1.5%	1.1%	-0.6%	2.1%	3.0%	3.9%	-0.7%	1.7%	1.6%
International	2003	-	-	-	-	-	-	-	-	-	-	-	-	-
	2004	16.5%	20.0%	6.7%	15.3%	3.1%	2.0%	14.3%	-5.6%	17.1%	2.2%	10.0%	25.6%	3.6%
	2005	-2.8%	6.7%	0.0%	-8.2%	-1.5%	8.2%	7.9%	-4.8%	7.1%	0.6%	9.1%	-8.2%	5.0%
	2006	-6.8%	-6.3%	4.8%	11.1%	-2.2%	5.1%	1.2%	-6.3%	2.0%	3.7%	8.3%	12.2%	3.7%
	2007	-5.2%	-3.3%	-2.3%	7.0%	0.2%	0.8%	-1.5%	7.1%	5.8%	6.2%	-3.8%	-1.0%	2.2%
							(Perce	ntage Distri	bution)					
Canada	2003	98.3%	98.2%	97.7%	98.8%	97.5%	88.6%	94.1%	96.8%	95.8%	85.0%	93.1%	88.3%	92.6%
	2004	98.1%	97.8%	97.6%	98.7%	97.5%	88.5%	93.7%	97.0%	95.4%	85.0%	92.2%	89.4%	92.5%
	2005	98.1%	97.8%	97.6%	98.8%	97.6%	88.0%	93.3%	97.2%	95.3%	84.6%	92.1%	90.6%	92.3%
	2006	98.3%	97.9%	97.5%	98.7%	97.6%	87.5%	93.3%	97.3%	95.3%	84.6%	92.0%	90.2%	92.1%
	2007	98.4%	98.0%	97.6%	98.6%	97.6%	87.5%	93.3%	97.2%	95.1%	84.3%	92.2%	90.4%	92.1%
International	2003	1.7%	1.8%	2.3%	1.2%	2.5%	11.4%	5.9%	3.2%	4.2%	15.0%	6.9%	11.7%	7.4%
	2004	1.9%	2.2%	2.4%	1.3%	2.5%	11.5%	6.3%	3.0%	4.6%	15.0%	7.8%	10.6%	7.5%
	2005	1.9%	2.2%	2.4%	1.2%	2.4%	12.0%	6.7%	2.8%	4.7%	15.4%	7.9%	9.4%	7.7%
	2006	1.7%	2.1%	2.5%	1.3%	2.4%	12.5%	6.7%	2.7%	4.7%	15.4%	8.0%	9.8%	7.9%
	2007	1.6%	2.0%	2.4%	1.4%	2.4%	12.5%	6.7%	2.8%	4.9%	15.7%	7.8%	9.6%	7.9%

Non response for *location of graduation* element (% of RN workforce): 2003, n=2,104 (0.9%); 2004, n=2,139 (0.9%); 2005, n=2,159 (0.9%); 2006, n=2,013 (0.8%); 2007, n=2,006 (0.8%).

Totals may not sum to 100% due to rounding.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Of the RNs employed in Canada who reported their location of graduation in 2007, 92.1% (235,636) graduated from a nursing program in Canada and 7.9% (20,319) graduated from an international nursing program. Since 2003, the proportion of internationally educated graduates in the Canadian RN workforce remained between 7% and 8%.

Table 16 shows that the RN workforces of British Columbia (15.7%), Ontario (12.6%) and the Northwest Territories and Nunavut (9.6%) had the highest concentration of internationally educated graduates in 2007. In contrast, only 1.4% of the New Brunswick RN workforce and 1.6% of the Newfoundland and Labrador RN workforce graduated from an international nursing school.

Data are not applicable or do not exist.

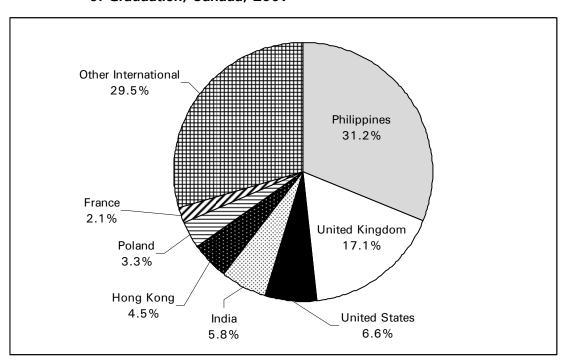


Figure 20 Internationally Educated Registered Nurses in the Workforce, by Country of Graduation, Canada, 2007

Includes only RNs who were educated outside of Canada (N $\,=\,$ 20,319) in 2007.

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

 $See\ Chapter\ 5\ (Methodological\ Notes)\ for\ more\ information\ regarding\ collection\ and\ comparability\ of\ data.$

Source

Regulated Nursing Database, Canadian Institute for Health Information.

For the 20,319 registered nurses in Canada who graduated from an international nursing program, the seven most frequently identified countries of graduation are identified in Figure 20. Almost half of all international graduates attended nursing programs in the Philippines or the United Kingdom. Graduates from the United States comprise 6.6% of all internationally educated graduates in the RN workforce.

Given the numbers, we may ask how long international graduates stay and whether they want to stay in the Canadian workforce. This is not a question directly answered by CIHI; however, by calculating exit rates for international graduates and Canadian graduates, we can find differences in rates in the various age groups.

Canadian and International Entry Rates Into the Workforce and Exit Rates

Table 17 shows the differences by age group and by location of graduation for entrants into the Canadian RN workforce in 2003. This table defines entrants into the workforce as RNs who registered and were employed within a specific jurisdiction in year x and not during years x - 1 to x - 5, excluding RNs who had been in the workforce during the five-year period prior to their entry or exit.

It cannot be determined from these data how many exits are RNs who have left the profession, how many were moves within Canada and how many were international moves. Among those entrants in 2003 who left within four years of entering the workforce, the international graduates had a higher rate among the cohort less than 35 and lower rates of exit in the cohorts 35 to 49 and 50+.

Table 17 Entrants to the Canadian Registered Nursing Workforce in 2003 and Corresponding Exit Rates From 2003 to 2006, by Age Group, Canadian and International Graduates

		Canadian		In	nternational	
	<35	35-49	50+	< 35	35-49	50+
Number of New Entrants in 2003	7,489	3,436	1,626	896	904	378
Exiting in 2003	395	261	291	81	64	48
Exiting in 2004	287	133	133	58	41	40
Exiting in 2005	301	143	118	29	34	15
Exiting in 2006	416	120	100	30	28	14
Total Exits From 2003 to 2006	1,399	657	642	198	167	117
New 2003 Entrants Remaining in the Workforce in 2006	6,090	2,779	984	698	737	261
Percentage of New Entrants Exiting the Workforce	18.7%	19.1%	39.5%	22.1%	18.5%	31.0%

Note

 $See\ Chapter\ 5\ (Methodological\ Notes)\ for\ more\ information\ regarding\ collection\ and\ comparability\ of\ data.$

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Urban/Rural Distribution of the Workforce

Geographical differences in Canada create numerous challenges for health care providers and planners. The urban/rural distribution of the population is a challenge not only in the northern territories but also in each of the provinces.

To determine if RNs were practising in a rural or an urban setting, a postal code analysis was performed. In most cases, the postal code used was that of the workplace; however, where the postal code of workplace was not submitted to CIHI, the postal code of residence was used. Figures 21 and 22 illustrate the urban/rural/remote distribution of the RN workforce in Canada in 2007. In 2007, 87.8% of the RN workforce worked in urban areas of Canada, ranging from highs of 98.4% in the Yukon and 93.9% in Ontario to lows of 57.1% in the Northwest Territories/Nunavut and 67.9% in Newfoundland and Labrador.

iii. See Chapter 5 (Methodological Notes) for a description of the postal code analysis.

Urban 87.8% Other 12.2% Remote 8.0%

Territories 0.2%

Figure 21 Registered Nursing Workforce, by Urban/Rural/Remote Designation, Canada, 2007

Totals may not sum to 100% due to rounding.

Urban areas are defined as communities with populations greater than 10,000 persons.

Rural areas are defined as communities in relatively close proximity to urban areas.

Remote areas are defined as those communities with relatively little social and economic interaction with urban areas.

Territories are defined as areas outside of Whitehorse and Yellowknife in the northern territories.

Postal code analysis for Quebec RN workforce provided by the Ordre des infirmiers et infirmières du Québec.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

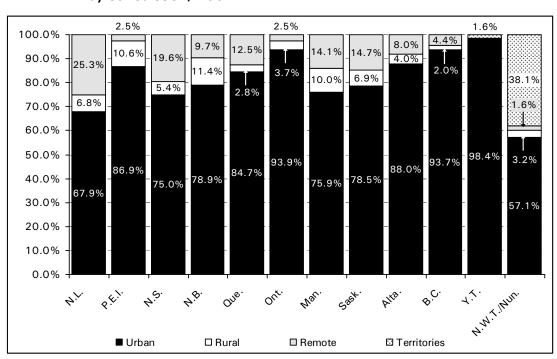


Figure 22 Registered Nursing Workforce, by Urban/Rural/Remote Designation, by Jurisdiction, 2007

Totals may not sum to 100% due to rounding.

Urban areas are defined as communities with populations greater than 10,000 persons.

Rural areas are defined as communities in relatively close proximity to urban areas.

Remote areas are defined as those communities with relatively little social and economic interaction with urban areas.

Territories are defined as areas outside of Whitehorse and Yellowknife in the northern territories.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Postal code analysis for Quebec RN workforce provided by the Ordre des infirmiers et infirmières du Québec.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology. RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Telehealth Services

Telehealth refers to services provided by a registered nurse over the telephone. By providing information and access to the expertise of a registered nurse, telehealth services can improve access to health care for people in remote locations or whose access is limited by culture, language or clinical resources.

Table 18 summarizes the four jurisdictions with the highest number of RNs reporting their area of responsibility as telehealth. Within Quebec and Alberta, RNs working in telehealth are most likely in the community health sector. Given these data, it is not possible to determine what type of service is being provided or where the patient receiving the service is living (in which jurisdiction, rural, urban or remote); however, there were more than 900 RNs providing telehealth services in Canada in 2007.

Table 18 Registered Nurses Reporting Area of Responsibility as Telehealth, by Top Four Workplaces, by Jurisdiction, 2007

Place of Work	N.L.	N.B.	Que.	Alta.	Grand Total
Community Health Centre	0	0	352	86	438
Other Place of Work	16	32	90	52	190
Private Nursing Agency	0	0	86	0	86
Hospital	5	16	41	9	71

Note

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

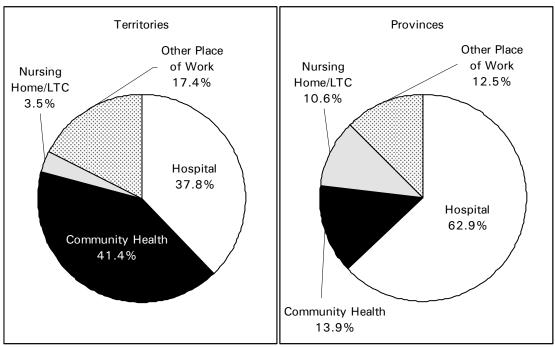
Registered Nurses in the Territories: Characteristics of the Northern Workforce

The nature and delivery of nursing services in the northern territories differ from those in the Canadian provinces. It is not uncommon for registered nurses to travel north on short-term work contracts and to return to their home province for the remainder of the year. Therefore, in addition to the RNs who are registered and working only in the northern territories, those RNs who are registered in a territory and another jurisdiction are also included in the northern RN workforce.

Some of the employment patterns described in this section also exist in northern or rural areas of each Canadian province. The health region analysis in Chapter 4 of this report provides some insight on the characteristics and services in each health region.

Figure 23 shows that the majority of RNs working in the territories work at the community level. Notably, 41.4% of RNs in the territories were employed at community health centres, home care agencies or nursing stations. In contrast, 13.9% of RNs employed in the provinces worked in these types of facilities.

Figure 23 Registered Nursing Workforce, by Place of Work, by Provincial or Territorial Level, Canada, 2007



Non-response for place of work element (% of RN workforce): n = 2,086 (0.8%).

Hospital includes data from hospital (general, maternal, pediatric, psychiatric), mental health centre and rehabilitation/convalescent centre. Community health includes data from community health centre, home care agency, nursing station (outpost or clinic), public health department/unit.

Nursing home includes data from nursing home/long-term care facility.

Other includes data from business/industry/occupational health office, private nursing agency/private duty, self-employed, physician's office/family practice unit, educational institution, association/government and other.

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

In 2007, 35.5% of the RN workforce in the Northwest Territories and Nunavut and 45.0% of the Yukon RN workforce were employed in the hospital sector. There are seven hospitals in the northern territories, in contrast to close to 700 hospitals across the provinces. The community health sector accounted for 45.1% of the RN workforce in the Northwest Territories and Nunavut and 33.5% of the Yukon RN workforce.

iv. Source: Canadian MIS Database, Canadian Institute for Health Information, 2006.

Among RNs employed in the territories, the three most frequently identified areas of responsibility were community health (28.9%), several clinical areas (13.0%) and medicine/surgery (8.5%). Registered nurses employed in the provinces most frequently identified medicine/surgery (19.7%), geriatric/long-term care (11.8%) and other patient care (9.7%) as their area of responsibility. More than 70% of RNs in both the territories (75.1%) and the provinces (78.4%) identified their position as staff nurse/community health nurse.

In 2007, 36.6% of the territorial workforce had a baccalaureate, with an additional 1.9% with a master's degree or doctorate in nursing, compared to 35.5% and 2.7%, respectively, in the provinces.

Internationally educated RNs comprise a greater percentage of the territorial workforce (9.1%) than the provincial workforce (7.9%), with most graduating from RN programs in the United Kingdom (32.0%) and the Philippines (20.8%).

Among the Canadian-trained RN workforce, Ontario graduates comprise more than one-quarter (26.6%) of the workforce in the northern territories, while Alberta graduates comprise 13.1% and British Columbia graduates comprise 12.4%. With only one RN education program in the territories, graduates from the north account for only 8.0% of Canadian-trained RNs in the territorial workforce.

Nurse Practitioner Employment Trends: Is the Workforce Changing?

The previous section on registered nurses included the data on nurse practitioners (NP). In this section, a selection of data is presented only for NPs, to illustrate some trends relevant to this emerging specialty. A nurse practitioner is an advanced practice registered nurse with additional education in health assessment, diagnosis and management of illness and injuries, including ordering tests and prescribing drugs.³ Nurse practitioners have been regulated in all provinces and territories except the Yukon since 2006.

Table 19 Year of Implementation of Nurse Practitioner Legislation by Jurisdiction, Canada

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nun.	
First Year	1997	2006	2002	2002	2003	1997	2005	2003	2002	2005	NR	2004	2004	_

Note

NR = not regulated.

Table 20 illustrates the supply trends of all NPs between 2003 and 2007. The total number of NPs in Canada was 1,395 in 2007, representing an increase of 19.8% since 2006 but only 0.5% of the total RN workforce. The years between 2003 and 2007 saw a doubling of the NP workforce in Canada. The percentage change must be interpreted with caution as the numbers of NPs are small.

Table 20 Nurse Practitioner Workforce, by Employment Status, by Position Status, Canada, 2003 to 2007

	Employed in Nursing					Not Employed in Nursing			Grand Total	
	Regular Basis, Full Time	Regular Basis, Part Time	Casual Basis	Regular Basis, Status Unknown	Sub-Total	Employed in Other Than Nursing or Not Employed	Not Stated	Sub-Total	_	
					(Count)					
2003	443	111	27	75	656	19	5	24	680	
2004	554	124	25	98	801	27	4	31	832	
2005	719	169	31	24	943	24	9	33	976	
2006	856	199	48	26	1,129	24	11	35	1,164	
2007	965	274	62	45	1,346	42	7	49	1,395	
				(Annua	l Percentage	Change)				
2003	-	-	-	_	_	-	_	_	_	
2004	25.1%	11.7%	-7.4%	30.7%	22.1%	42.1%	-20.0%	29.2%	22.4%	
2005	29.8%	36.3%	24.0%	-75.5%	17.7%	-11.1%	125.0%	6.5%	17.3%	
2006	19.1%	17.8%	54.8%	8.3%	19.7%	0.0%	22.2%	6.1%	19.3%	
2007	12.7%	37.7%	29.2%	73.1%	19.2%	75.0%	-36.4%	40.0%	19.8%	
				(Perc	entage Distri	bution)				
2003	65.1%	16.3%	4.0%	11.0%	96.5%	2.8%	0.7%	3.5%	100.0%	
2004	66.6%	14.9%	3.0%	11.8%	96.3%	3.2%	0.5%	3.7%	100.0%	
2005	73.7%	17.3%	3.2%	2.5%	96.6%	2.5%	0.9%	3.4%	100.0%	
2006	73.5%	17.1%	4.1%	2.2%	97.0%	2.1%	0.9%	3.0%	100.0%	
2007	69.2%	19.6%	4.4%	3.2%	96.5%	3.0%	0.5%	3.5%	100.0%	

Notes

Number of jurisdictions submitting NP data: 6 in 2003; 7 in 2004; 9 in 2005; 10 in 2006; and 11 in 2007.

Totals may not sum to 100% due to rounding.

For the Northwest Territories and Nunavut in 2005 and 2006, full time, part time and casual are included in position status employed—status unknown.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Nurse practitioners employed in nursing but reported as status unknown are those who reported a workplace but failed to indicate their position status (full time or part time). Accordingly, they are included in the workforce but are excluded from some analyses in the report, as indicated in table footnotes. The number of NPs reported as status unknown decreased every year since 2003. They represented 3.2% of the workforce in 2007.

The majority of NPs working in nursing are employed on a regular basis in full-time positions; this number steadily increased over the past five years. In 2007, 965, or 69.2%, NPs were working in regular full-time positions.

Data are not applicable or do not exist.

Table 21 Nurse Practitioner Workforce, by Jurisdiction and Canada, 2003 to 2007

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T./ Nun.	Canada
							(Count)						
2003	55	_	23	6	-	494	-	-	73	_	_	5	656
2004	61	_	30	14	_	536	_	42	106	_	_	12	801
2005	66	_	37	19	_	590	*	74	130	*	_	19	943
2006	89	-	61	24	1†	639	*	88	156	35	_	16	1,129
2007	96	*	72	29	1†	731	31	99	176	50	-	42	1,346
						(Annual F	Percentage	Change)					
2003	_	_	_	_	_	_	_	_	_	-	_	_	_
2004	10.9%	-	30.4%	133.3%	_	8.5%	_	_	45.2%	_	_	140.0%	22.1%
2005	8.2%	-	23.3%	35.7%	_	10.1%	_	76.2%	22.6%	_	_	58.3%	17.7%
2006	34.8%	-	64.9%	26.3%	_	8.3%	t	18.9%	20.0%	t	_	-15.8%	19.7%
2007	7.9%	-	18.0%	20.8%	†	14.4%	t	12.5%	12.8%	42.9%	-	162.5%	19.2%
						(Percen	tage Distri	bution)					
2003	8.4%	_	3.5%	0.9%	-	75.3%	_	-	11.1%	_	_	0.8%	100.0%
2004	7.6%	_	3.7%	1.7%	_	66.9%	_	5.2%	13.2%	_	_	1.5%	100.0%
2005	7.0%	_	3.9%	2.0%	_	62.6%	t	7.8%	13.8%	t	_	2.0%	100.0%
2006	7.9%	_	5.4%	2.1%	t	56.6%	t	7.8%	13.8%	3.1%	_	1.4%	100.0%
2007	7.1%	†	5.3%	2.2%	t	54.3%	2.3%	7.4%	13.1%	3.7%	_	3.1%	100.0%

- Data are not applicable or do not exist.
- * Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.
- † Digit suppressed to ensure confidentiality.

Number of jurisdictions submitting NP data: 6 in 2003; 7 in 2004; 9 in 2005; 10 in 2006; and 11 in 2007.

Totals may not sum to 100% due to rounding.

Northwest Territories and Nunavut data are combined, as the RNs did not specify in which territory they worked the majority of the time.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

As Table 21 shows, the size of the nurse practitioner workforce varies significantly by jurisdiction, and no data are available for the Yukon. This variability is likely due to the timing of the implementation of licensing programs in each Canadian jurisdiction. As of 2007, the Yukon did not have a licensing program for nurse practitioners; Quebec and Prince Edward Island were the last provinces to implement the NP program, in 2006.

Location of Work

The most commonly reported location of work by NPs is in community health, including community health centres, home care agencies, nursing stations and public health units. Figure 24 shows that while community health has historically been the main employer for NPs, the proportion of NPs employed in the hospital sector has increased.

50.0% 45.0% 40.0% 35.0% 30.0% 25.0% 20.0% 15.0% 10.0% 5.0% 0.0% Nursing Home/LTC Other Place of Work Hospital Community Health **2003** □ 2005 □ 2007

Figure 24 Nurse Practitioner Workforce, by Place of Work, Canada, 2003, 2005 and 2007

Number of jurisdictions submitting NP data: 6 in 2003; 7 in 2004; 9 in 2005; 10 in 2006; and 11 in 2007.

Non-response for place of work element (% of NP workforce): 2003, n = 18 (2.7%); 2005, n = 34 (3.6%); 2007, n = 38 (2.7%).

Hospital includes data from hospital (general, maternal, pediatric, psychiatric), mental health centre and rehabilitation/convalescent centre. Community health includes data from community health centre, home care agency, nursing station (outpost or clinic), public health department/unit.

Nursing home/LTC includes data from nursing home/long-term care facility.

Other place of work includes data from business/industry/occupational health office, private nursing agency/private duty, self-employed, physician's office/family practice unit, educational institution, association/government and other.

Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Area of Responsibility

The highest proportion of NPs, 48.5%, reported their area of responsibility as other patient care in 2007.

Table 22 Nurse Practitioner Workforce by Area of Responsibility, Canada, 2007

	Counts	Percentage
Direct Care		
Community Health	99	7.7%
Nursing in Several Clinical Areas	64	5.0%
Ambulatory Care	62	4.8%
Medical/Surgical	61	4.7%
Emergency Room	61	4.7%
Geriatric/Long-Term Care	47	3.6%
Critical Care (Burn)	42	3.3%
Public Health	41	3.2%
Pediatric	30	2.3%
Psychiatric/Mental Health	16	1.2%
Maternal/Newborn	13	1.0%
Occupational Health	9	0.7%
Oncology	9	0.7%
Rehabilitation	9	0.7%
Home Care	†	†
Operating Room	*	†
Other Patient Care	625	48.5%
Total Direct Care	1,193	92.6%
Administration		
Nursing Service	21	1.6%
Nursing Education	*	†
Other Administration	1†	†
Total Administration	34	2.6%
Education		
Teaching — Students	27	2.1%
Teaching — Employees	†	†
Teaching—Patients/Clients	*	†
Other Education	25	1.9%
Total Education	59	4.6%
Research		
Nursing Reseach Only	*	†
Other Research	*	†
Total Research	3	0.2%
Total	1,289	100.0%

Notes

Number of jurisdictions licensing NPs: 11 in 2007.

Non-response for area of responsibility element (% of all NPs): n = 57 (4.2%).

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

^{*} Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.

[†] Value suppressed to ensure confidentiality.

Totals may not sum to 100% due to rounding.

Nurse Practitioner Demographic Trends: Sex and Age Composition

Almost all NPs in the Canadian workforce (94.2%) were female in 2007, a proportion that has not changed significantly over five years (see Table 23). This resembles the pattern in the RN workforce as a whole.

Table 23 Nurse Practitioner Workforce, by Sex, Canada, 2003 to 2007

	Female	Male
	(Co	unt)
2003	618	38
2004	758	43
2005	887	56
2006	1,064	65
2007	1,268	78
	(Annual Perce	ntage Change)
2003	_	_
2004	22.7%	13.2%
2005	17.0%	30.2%
2006	20.0%	16.1%
2007	19.2%	20.0%
	(Percentage	Distribution)
2003	94.2%	5.8%
2004	94.6%	5.4%
2005	94.1%	5.9%
2006	94.2%	5.8%
2007	94.2%	5.8%

Notes

Number of jurisdictions submitting NP data: 6 in 2003; 7 in 2004; 9 in 2005; 10 in 2006; and 11 in 2007. Totals may not sum to 100% due to rounding.

In 2007, the College of Registered Nurses of Manitoba submitted aggregate tables for sex and average age.

RNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Average Age and Generations

The average age of the NP workforce (excluding Manitoba) was 45.4 years in 2007, as compared to 45.1 years for the entire RN workforce, including NPs. The distribution of NPs throughout the generations and age groups is similar to the distribution of RNs. Table 24 shows that the highest proportion of NPs are baby boomers, 41.9% of which are in the 40-to-49 age group. This is slightly lower than the largest age group of RNs, which is spread out almost equally at approximately 15% each among three age groups: 45 to 49, 50 to 54 and 55 to 59.

Data are not applicable or do not exist.

Table 24 Nurse Practitioner Workforce, by Age Group, Canada, 2007

25-29	1.8%	Generation Y
30-34	9.1%	Generation X
35-39	14.0%	Generation A
40-44	20.1%	
45-49	21.8%	Baby
50-54	19.7%	Boomers
55-59	9.7%	
60-64	2.9%	Veterans
65 +	0.8%	veterans

Non-response for year of birth element (% of NP workforce): n = 34 (2.5%).

Number of jurisdictions licensing NPs: 11 in 2007.

In 2007, the College of Registered Nurses of Manitoba submitted aggregate tables for sex and average age. See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Nurse Practitioner Education Trends: Lifelong Learning

In the 2007 nurse practitioner workforce, more than half of the NPs in Canada had obtained a baccalaureate as their highest education in nursing (see Table 25). Close to one-quarter of the workforce held a master's degree or doctorate, significantly more than the proportion of RNs in the workforce with either degree (2.7%).

Table 25 Nurse Practitioner Workforce, by Highest Education in Nursing, Canada, 2003 to 2007

	Diploma	Baccalaureate	Master's/Doctorate	Canada		
	(Count)					
2003	151	423	82	656		
2004	151	495	155	801		
2005	158	590	195	943		
2006	158	658	313	1,129		
2007	182	732	432	1,346		
	(Annual Percentage Change)					
2002		(Allitual Felt	certage Change,			
2003	-	_	_	_		
2004	0.0%	17.0%	89.0%	22.1%		
2005	4.6%	19.2%	25.8%	17.7%		
2006	0.0%	11.5%	60.5%	19.7%		
2007	15.2%	11.2%	38.0%	19.2%		
(Percentage Distribution)						
0000	00.00/	, ,	· ·	100.00/		
2003	23.0%	64.5%	12.5%	100.0%		
2004	18.9%	61.8%	19.4%	100.0%		
2005	16.8%	62.6%	20.7%	100.0%		
2006	14.0%	58.3%	27.7%	100.0%		
2007	13.5%	54.4%	32.1%	100.0%		

Notes

Data are not applicable or do not exist.

Number of jurisdictions submitting NP data: 6 in 2003; 7 in 2004; 9 in 2005; 10 in 2006; and 11 in 2007. Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Nurse Practitioner Mobility Trends: A Mobile Workforce

Of the nurse practitioners employed in Canada who reported their location of graduation in 2007, Table 26 shows that 95.9%, or 1,282, graduated from a nursing program in Canada and 4.1%, or 55, graduated from an international nursing program. Since 2003, the proportion of internationally educated graduates in the Canadian NP workforce remained close to 4%.

Table 26 Nurse Practitioner Workforce, by Location of Graduation, Canada, 2003 to 2007

	Canadian	International		
	(Counts)			
2003	622	29		
2004	767	29		
2005	893	39		
2006	1,075	45		
2007	1,282	55		
	(Annual Perce	entage Change)		
2003	_	_		
2004	23.3%	0.0%		
2005	16.4%	34.5%		
2006	20.4%	15.4%		
2007	19.3%	22.2%		
	(Percentage Distribution)			
2003	95.5%	4.5%		
2004	96.4%	3.6%		
2005	95.8%	4.2%		
2006	96.0%	4.0%		
2007	95.9%	4.1%		

Notes

Number of jurisdictions submitting NP data: 6 in 2003; 7 in 2004; 9 in 2005; 10 in 2006; and 11 in 2007.

Non-response for location of graduation element (% of NP workforce): 2003, n=5 (0.8%); 2004, n=5 (0.6%); 2005, n=11 (1.2%); 2006, n=9 (0.8%); 2007, n=9 (0.7%).

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

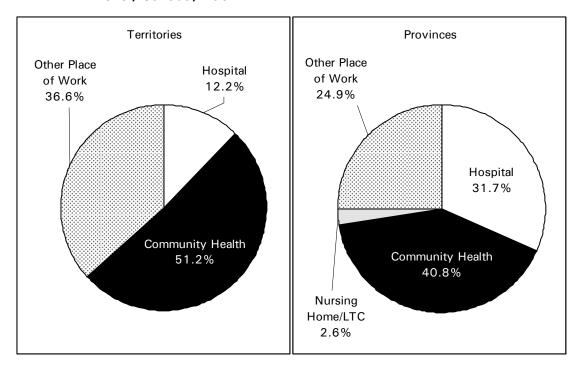
Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

Figure 25 shows that the majority of NPs working in the territories work at the community level. Notably, 51.2% of NPs in the territories were employed at community health centres, home care agencies or nursing stations (outposts or clinics). In contrast, 40.8% of NPs employed in the provinces worked in these types of facilities.

Figure 25 Nurse Practitioner Workforce, by Place of Work, by Provincial or Territorial Level, Canada, 2007



Notes

Number of jurisdictions licensing NPs: 11 in 2007.

Non-response for *place of work* element (% of NP workforce): n = 38 (2.7%).

Hospital includes data from hospital (general, maternal, pediatric, psychiatric), mental health centre and rehabilitation/convalescent centre. Community health includes data from community health centre, home care agency, nursing station (outpost or clinic), public health department/unit.

Nursing home includes data from nursing home/long-term care facility.

Other includes data from business/industry/occupational health office, private nursing agency/private duty, self-employed, physician's office/family practice unit, educational institution, association/government and other.

Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Urban/Rural Distribution of the Nurse Practitioner Workforce

Figure 26 illustrates the urban/rural distribution of the NP workforce in Canada. In 2007, 74.5% of NPs worked in urban Canada, 12.0% worked in rural settings, 12.6% worked in remote settings and 1.0% worked in the territories. The distribution was slightly different than for the RN workforce: 89.6% of RNs worked in urban settings, 4.2% worked in rural settings, 6.0% worked in remote settings and 0.2% worked in the territories.

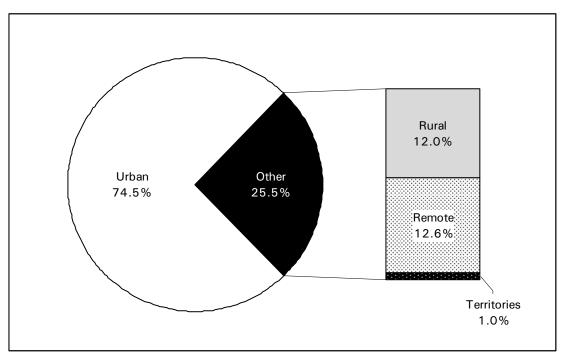


Figure 26 Nurse Practitioner Workforce, by Urban/Rural/Remote Designation, Canada, 2007

Number of jurisdictions licensing NPs: 11 in 2007.

Totals may not sum to 100% due to rounding.

Urban areas are defined as communities with populations greater than 10,000 persons.

Rural areas are defined as communities in relatively close proximity to urban areas.

Remote areas are defined as those communities with relatively little social and economic interaction with urban areas.

Territories are defined as areas outside of Whitehorse and Yellowknife in the northern territories.

Postal code analysis for Quebec RN workforce provided by the Ordre des infirmiers et infirmières du Québec.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Methodological and Historical Changes to Registered Nursing Data, 2003 to 2007

Methodological and historical changes to the data make it difficult to compare data across time. CIHI and the regulatory authorities are continually striving to improve data quality; therefore, the following information must be taken into consideration when making historical comparisons and consulting previous CIHI publications. In all cases, comparisons should be made with caution and in consideration of the historical and methodological changes made.

RN data for the years 1994 to 2001 were published in the CIHI series *Supply and Distribution of Registered Nurses*, and RN data for the 2002 data year were published in the report *Workforce Trends of Registered Nurses*, 2002.

Historical Review and Data Limitations

For a complete list of the data elements related to RNs, please access the *Registered Nurses System Data Dictionary and Processing Manual* on the CIHI website at www.cihi.ca.

Nurse Practitioner

In 2007, the nurse practitioner data were incorporated into the nursing database, back to data year 2003. Consistent methodology was applied to the NP records, including the removal of duplicates and the six-month cut-off for data collection, resulting in a change from NP totals published in previous reports.

Employment

All Jurisdictions—Employment Status

A methodology developed to more accurately account for all RNs in the workforce was implemented in 2003. RNs reporting an employer in nursing but failing to state their position status (full-time, part-time or casual positions with that employer) were re-coded by CIHI from *employment status* not stated to unknown.

British Columbia - Employment Status

For the 2005 data year, *employment status* was not re-coded to unknown, thus leading to an under-reporting of the workforce.

Alberta - Employment Status

In 2006, CIHI reported an undercoverage of 879 RNs in the Alberta data, all of whom were submitted as *employment status* not stated but with employment information. CIHI re-coded *employment status* for those records to employed in nursing—status unknown, which are included in the 2006 workforce in this publication.

Northwest Territories and Nunavut-Employment Status

The RN workforce relies on a core of full-time resident RNs plus a large number of short-term relief staff from across Canada each year. While some RNs will return each year, some will register in the northern territories only once. This lack of stability in the workforce will result in greater variability in the data.

Data for the Northwest Territories and Nunavut are provided by the Registered Nurses Association of the Northwest Territories and Nunavut (RNANT/NU). For the 2005 to 2007 data years, it is not possible to accurately divide registered nurses between the two territories; as a result, data for the Northwest Territories and Nunavut are combined under a single set of statistics.

Starting with the 2004 data, the RNANT/NU and CIHI have been working together to improve the accuracy of RNANT/NU's data submissions. Prior to 2004, not all RNANT/NU codes could be converted to CIHI specifications; those that could not were submitted to CIHI with *employment status* not stated. A review of RNANT/NU coding continues.

For the data years 2005 to 2007, all RNs employed in registered nursing in the Northwest Territories and Nunavut are coded as employed in nursing—status unknown.

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v. See Chapter 5 (Methodological Notes) for more information on the re-coding of the employment status element.

Prince Edward Island—Employment Status

According to the Association of Registered Nurses of Prince Edward Island (ARNPEI), P.E.I. has made an effort to increase the number of full-time nurses. This has resulted in a decrease in the number of part-time nurses for data year 2006. Additionally, the province has seen an increase in formerly retired RNs who have re-entered the workforce on a casual basis.

Ontario - Employment Status

According to the College of Nurses of Ontario (CNO), for data year 2006, the changes in the variable *employment status* are a result of refinements in the renewal process and resulted in changes to those employed in nursing—status unknown.

Quebec-Place of Work, Area of Responsibility, Position

The Ordre des infirmières et infirmiers du Québec (OIIQ) made changes to its registration form in 2005, resulting in changes to the employment fields. The OIIQ campaign for an increase in accuracy of the information reported has resulted in a decrease in the category not stated for these fields.

Ontario-Place of Work, Area of Responsibility, Position

In 2004, the CNO implemented the CNO Practice and Employment Definition to aid members in providing information. These definitions have added granularity to the data but have resulted in shifts in values for these categories.

Quebec - Multiple Employment Status

The number of nurses with multiple employers has decreased in Quebec as a result of the creation of the health and social service centres (CSSSs). Nurses identifying a CSSS as their employer may be working in more than one facility operated by the CSSS; while they may be working in multiple facilities, they have only one employer.

Nova Scotia, New Brunswick, Ontario, Saskatchewan, Alberta-Place of Work

In 2006, the provinces of Nova Scotia, New Brunswick, Ontario, Saskatchewan and Alberta began submitting information to CIHI for registered nurses in public health.

Ontario - Place of Work

According to the CNO, refinements in the renewal process for data year 2006 have enabled the CNO to reduce the number of not stated responses to this category.

New Brunswick-Place of Work

The decrease in the number of RNs selecting hospital for the field *place of work (primary employer)* is the result of a coding change. Extramural nurses, previously coded in the field hospital, are now coded under community health centre.

During 2005–2006, the government of New Brunswick changed a number of small hospitals to community health centres (CHCs). This resulted in an initial increase of RNs reported in CHCs in 2005 and a subsequent decrease reported in 2006 as the RN staff were realigned to reflect staffing levels appropriate to CHCs.

Quebec-Place of Work

Over the last three years, the Quebec Ministère de la santé et des services sociaux has merged most of the province's public-sector hospitals, long-term care facilities and community health centres into 95 CSSss. In 2006, more than 800 nurses identified CSSss as their place of work. CIHI does not have an element in its data dictionary that corresponds to this element. As a result, the *place of work* for these RNs was defaulted to other.

Saskatchewan-Place of Work

In 2006, the decrease in the field community health centre is the result of the addition of the new field public health department/unit.

Ontario - Area of Responsibility

According to the CNO, refinements in the renewal process have enabled the CNO to reduce the number of not stated responses to this category. The fields *area of responsibility* (second employer) and *area of responsibility* (third employer) were not submitted by CNO for the data years 2000 to 2005, inclusive.

Ontario — Position

According to the CNO, refinements in the renewal process have enabled the CNO to reduce the number of not stated responses to this category. The fields *position* (second employer) and position (third employer) were not submitted by CNO for the data years 2000 to 2005, inclusive.

Northwest Territories and Nunavut-Position

According to the RNANT/NU, relief nurses are identifying themselves under the category other position rather than staff or community health nurse. This is reflected in the 2006 data.

Demographics

Manitoba—Birth Year and Sex

In 2007, the College of Registered Nurses of Manitoba (CRNM) submitted age groups and aggregate tables instead of *birth year* and *sex* as a result of changes to provincial privacy legislation.

Education

Prince Edward Island—Other Education in Nursing

The ARNPEI has pushed for an increase in accuracy of the information reported by registrants of the province. This has resulted in a decrease of not stated for the fields other education in nursing and education in other than nursing.

Manitoba — Other Education in Nursing

In 2006, the College of Registered Nurses of Manitoba (CRNM) made a significant correction to the 2005 data for the field other education in nursing discipline. This reduced the number of RNs in the category baccalaureate.

Ontario - Graduation Location, Initial Education

The *graduation location code* for Ontario RNs for 2006 and 2007 was not submitted. The *initial education code* for Ontario RNs for 2005 and 2006 was not submitted.

Quebec-Postal Code

For all data years, postal codes were not submitted to CIHI for the fields *postal code* of worksite and postal code of residence by the OIIQ.

Ontario - Postal Code

The fields postal code of worksite (second employer) and postal code of worksite (third employer) were not submitted by the CNO for the data years 2000 to 2005, inclusive.

Manitoba - Postal Code

For all data years, *postal code* was not submitted to CIHI by the CRNM. In addition, only partial postal codes were submitted for the field *postal code of residence*.

Alberta-Postal Code

For all data years, partial *postal code* was submitted to CIHI for the field *postal code* of worksite by the College and Association of Registered Nurses of Alberta (CARNA).

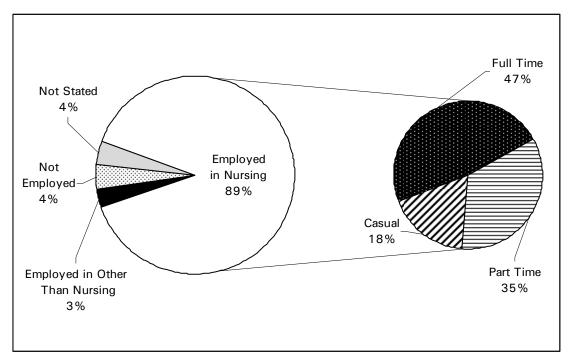
Chapter 2—Regulated Nurses in Canada: Trends of Licensed Practical Nurses

Supply Trends: How Many Licensed Practical Nurses?

The regulated nursing workforce is of critical importance to the health of Canadians, and thus to health human resource planners. This chapter presents data on licensed practical nurses (LPNs) working in Canada in 2007 and illustrates key trends over the last five years.

The LPN workforce is defined as LPNs employed in practical nursing within Canada. They represented 21% of the total regulated nursing workforce in 2007. The employment status indicator classifies LPNs as working either in nursing or outside of nursing, or as not working. The position status indicator further classifies LPNs in the workforce as working in part-time, full-time or casual positions. As Figure 27 shows, the vast majority of LPNs who register in Canada are in the LPN workforce, with just less than half (47%) employed in full-time positions.

Figure 27 Licensed Practical Nurses, by Employment Status, by Position Status, Canada, 2007



Notes

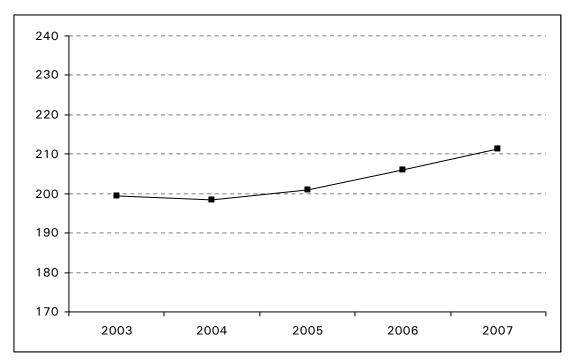
Totals may not sum to 100% due to rounding.

 $See\ Chapter\ 5\ (Methodological\ Notes)\ for\ more\ information\ regarding\ collection\ and\ comparability\ of\ data.$

Source

Figure 28 illustrates the growth trend of the LPN workforce per 100,000 population between 2003 and 2007, when there were 211 LPNs per 100,000 population in Canada. Since 2004, the growth of the LPN workforce has consistently been higher than the rate of population growth.

Figure 28 Licensed Practical Nursing Workforce per 100,000 Population, Canada, 2003 to 2007



Note

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Sources

Regulated Nursing Database, Canadian Institute for Health Information; population estimates (July 1, 2007), Statistics Canada.

Employment Trends: Is the Workforce Changing?

Table 27 shows the supply of licensed practical nurses in Canada over the period 2003 to 2007, when there were 78,080 LPNs in Canada, 4.2% more than in 2006 and 10.9% more than in 2003. The number of LPNs employed in nursing increased in every year between 2003 and 2007, though the increase was not uniform across the country (see Table 28). Additional information on LPNs by jurisdiction is available in the data tables on the CIHI website.

Table 27 Licensed Practical Nurses, by Employment Status, by Position Status, Canada, 2003 to 2007

		Employed in Pr	actical Nursing	ı	_			Not Employe	d in Practical Nu	rsing		Grand Total
	Regular Basis, Full Time	Regular Basis, Part Time	Casual Basis	Regular Basis, Status Unknown	Sub-Total		d in Other Nursing	Not Em	ployed	Not Stated	Sub-Total	
						Seeking Employment	Not Seeking Employment	Seeking Employment in Nursing	Not Seeking Employment in Nursing			
	Α	В	С	D	E = A + B + C + D	F	G	Н	ı	J	K = F + G + H + I + J	L = E + K
						(1	Count)					
2003 2004 2005 2006 2007	31,764 27,958 30,217 31,282 32,909	22,038 22,281 23,395 23,991 23,927	8,810 9,165 10,754 11,485 12,535	526 4,039 587 542 338	63,138 63,443 64,953 67,300 69,709	407 285 229 214 201	2,084 2,242 2,434 2,216 2,232	1,336 1,113 1,140 1,522 1,402	1,871 1,804 1,606 1,553 1,584	1,568 2,394 2,059 2,163 2,952	7,266 7,838 7,468 7,668 8,371	70,404 71,281 72,421 74,968 78,080
						(Annual Per	centage Change	e)				
2003 2004 2005 2006 2007	-12.0% 8.1% 3.5% 5.2%	1.1% 5.0% 2.5% -0.3%	4.0% 17.3% 6.8% 9.1%	-667.9% -85.5% -7.7% -37.6%	0.5% 2.4% 3.6% 3.6%	-30.0% -19.6% -6.6% -6.1%	7.6% 8.6% -9.0% 0.7%	-16.7% 2.4% 33.5% -7.9%	-3.6% -11.0% -3.3% 2.0%	52.7% -14.0% 5.1% 36.5%	7.9% -4.7% 2.7% 9.2%	1.2% 1.6% 3.5% 4.2%
						(Percenta)	ge Distribution)					
2003 2004 2005 2006 2007	45.1% 39.2% 41.7% 41.7% 42.1%	31.3% 31.3% 32.3% 32.0% 30.6%	12.5% 12.9% 14.8% 15.3% 16.1%	0.7% 5.7% 0.8% 0.7% 0.4%	89.7% 89.0% 89.7% 89.8% 89.3%	0.6% 0.4% 0.3% 0.3% 0.3%	3.0% 3.1% 3.4% 3.0% 2.9%	1.9% 1.6% 1.6% 2.0% 1.8%	2.7% 2.5% 2.2% 2.1% 2.0%	2.2% 3.4% 2.8% 2.9% 3.8%	10.3% 11.0% 10.3% 10.2% 10.7%	100.0% 100.0% 100.0% 100.0% 100.0%

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

LPNs employed in nursing but reported as status unknown are those who reported employment data but who failed to indicate their position status as full time, part time or casual. Accordingly, they are included in the workforce but are excluded from some analyses in the report, as indicated in table footnotes. The number of LPNs reported as status unknown decreased every year since 2004, and represented only 0.4% of the total number by 2007.

Table 28 Licensed Practical Nursing Workforce, by Jurisdiction and Canada, 2003 to 2007

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Canada
							(Count)						
2003	2,719	619	3,022	2,429	14,831	25,730	2,417	2,056	4,766	4,391	60	98	63,138
2004	2,710	628	3,058	2,556	15,472	24,467	2,415	2,131	5,051	4,811	53	91	63,443
2005	2,698	606	3,127	2,633	16,293	24,458	2,590	2,194	5,313	4,884	56	101	64,953
2006	2,639	599	3,174	2,646	17,104	25,084	2,652	2,224	5,614	5,412	60	92	67,300
2007	2,598	623	3,160	2,734	17,492	26,126	2,671	2,381	5,986	5,791	59	88	69,709
						(Annual	Percentage	Change)					
2003	_	_	_	_	_	_	_	_	_	_	_	_	_
2004	-0.3%	1.5%	1.2%	5.2%	4.3%	-4.9%	-0.1%	3.6%	6.0%	9.6%	-11.7%	-7.1%	0.5%
2005	-0.4%	-3.5%	2.3%	3.0%	5.3%	0.0%	7.2%	3.0%	5.2%	1.5%	5.7%	11.0%	2.4%
2006	-2.2%	-1.2%	1.5%	0.5%	5.0%	2.6%	2.4%	1.4%	5.7%	10.8%	7.1%	-8.9%	3.6%
2007	-1.6%	4.0%	-0.4%	3.3%	2.3%	4.2%	0.7%	7.1%	6.6%	7.0%	-1.7%	-4.3%	3.6%
						(Percer	ntage Distril	bution)					
2003	4.3%	1.0%	4.8%	3.8%	23.5%	40.8%	3.8%	3.3%	7.5%	7.0%	0.1%	0.2%	100.0%
2004	4.3%	1.0%	4.8%	4.0%	24.4%	38.6%	3.8%	3.4%	8.0%	7.6%	0.1%	0.1%	100.0%
2005	4.2%	0.9%	4.8%	4.1%	25.1%	37.7%	4.0%	3.4%	8.2%	7.5%	0.1%	0.2%	100.0%
2006	3.9%	0.9%	4.7%	3.9%	25.4%	37.3%	3.9%	3.3%	8.3%	8.0%	0.1%	0.1%	100.0%
2007	3.7%	0.9%	4.5%	3.9%	25.1%	37.5%	3.8%	3.4%	8.6%	8.3%	0.1%	0.1%	100.0%

Notes

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

Data are not collected for Nunavut.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

Licensed Practical Nurses Not Employed in Nursing

Effective health human resource planning requires an understanding of both the current and the potential workforce. While this report focuses on licensed practical nurses currently employed in nursing, it is also important to understand the profile of the LPN profession as a whole and to investigate trends with respect to LPNs who register but do not work in nursing.

Table 29 shows that the largest proportion of LPNs who were seeking employment were in the under-30 age group. The majority of LPNs not employed in nursing that were in the over-60 age group were not seeking employment between 2003 and 2007.

Table 29 Licensed Practical Nurses Not Employed in Nursing, by Employment Status, by Age Group, Canada, 2003 to 2007

		<30	30-39	40-49	50-59	60+	Canada
				(Count	t)		
	2003	390	432	463	370	87	1,742
Not Employed	2004	312	329	380	312	65	1,398
in Nursing but Seeking	2005	368	297	326	304	74	1,369
Nursing Employment	2006	477	398	410	341	110	1,736
	2007	424	353	369	316	140	1,602
Not Employed	2003	190	748	1,306	1,350	361	3,955
in Nursing and Not	2004	182	676	1,246	1,503	438	4,045
Seeking Nursing	2005	142	630	1,238	1,561	469	4,040
	2006	132	557	1,087	1,466	527	3,769
Employment	2007	166	577	1,026	1,432	614	3,815
			(Ar	nnual Percenta	ige Change)		
	2003	_	_	_	_	_	_
Not Employed	2004	-20.0%	-23.8%	-17.9%	-15.7%	-25.3%	-19.7%
in Nursing but Seeking	2005	17.9%	-9.7%	-14.2%	-2.6%	13.8%	-2.1%
Nursing Employment	2006	29.6%	34.0%	25.8%	12.2%	48.6%	26.8%
	2007	-11.1%	-11.3%	-10.0%	-7.3%	27.3%	-7.7%
Not Employed	2003	_	_	_	_	_	_
in Nursing and Not	2004	-4.2%	-9.6%	-4.6%	11.3%	21.3%	2.3%
Seeking Nursing	2005	-22.0%	-6.8%	-0.6%	3.9%	7.1%	-0.1%
	2006	-7.0%	-11.6%	-12.2%	-6.1%	12.4%	-6.7%
Employment	2007	25.8%	3.6%	-5.6%	-2.3%	16.5%	1.2%
			(1	Percentage Dis	stribution)		
	2003	22.4%	24.8%	26.6%	21.2%	5.0%	100.0%
Not Employed	2004	22.3%	23.5%	27.2%	22.3%	4.6%	100.0%
in Nursing but Seeking	2005	26.9%	21.7%	23.8%	22.2%	5.4%	100.0%
Nursing Employment	2006	27.5%	22.9%	23.6%	19.6%	6.3%	100.0%
	2007	26.5%	22.0%	23.0%	19.7%	8.7%	100.0%
Not Employed	2003	4.8%	18.9%	33.0%	34.1%	9.1%	100.0%
in Nursing and Not	2004	4.5%	16.7%	30.8%	37.2%	10.8%	100.0%
Seeking Nursing	2005	3.5%	15.6%	30.6%	38.6%	11.6%	100.0%
Employment	2006	3.5%	14.8%	28.8%	38.9%	14.0%	100.0%
ьпроупшен	2007	4.4%	15.1%	26.9%	37.5%	16.1%	100.0%

Notes

Employment status not employed in nursing includes LPNs who are not working in positions outside of nursing. See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

Position Status

The majority of licensed practical nurses employed in nursing were employed on a regular basis in full-time positions, with 32,909, or 47.4% of the workforce, working in full-time positions in 2007.

Table 30 Licensed Practical Nursing Workforce, by Position Status, by Jurisdiction and Canada, 2003 to 2007

		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Canada
Employed Full Time	2003 2004 2005 2006 2007	1,604 1,552 1,508 1,434 1,466	231 287 250 253 272	1,496 1,523 1,544 1,587 1,602	1,153 1,244 1,306 1,274 1,368	5,875 6,008 5,992 6,187 6,493	15,097 11,194 13,448 13,765 14,357	(Count) 837 832 863 867 873	1,026 1,091 1,043 1,015 1,178	1,872 1,984 2,093 2,244 2,454	2,462 2,134 2,052 2,542 2,737	37 37 39 40 37	74 72 79 74 72	31,764 27,958 30,217 31,282 32,909
Employed Part Time	2003 2004 2005 2006 2007	147 162 181 170 152	232 223 236 229 232	772 672 716 786 852	793 785 785 795 817	6,857 7,032 7,181 7,470 7,627	8,600 7,860 8,748 9,027 9,391	1,358 1,367 1,393 1,414 1,438	443 637 441 750 62†	2,249 2,359 2,450 2,568 2,674	564 1,171 1,252 768 112	13 7 7 8 8	10 6 5 6 *	22,038 22,281 23,395 23,991 23,927
Employed Casual	2003 2004 2005 2006 2007	968 996 1,009 1,032 979	156 118 120 117 119	750 820 863 798 696	483 526 542 575 548	2,099 2,176 2,768 3,045 3,372	2,033 1,912 2,262 2,292 2,378	222 216 257 285 274	300 375 668 456 427	645 708 770 802 858	1,130 1,296 1,468 2,060 2,857	10 9 10 12 14	14 13 17 11 13	8,810 9,165 10,754 11,485 12,535
Employed Position Status Unknown	2003 2004 2005 2006 2007	- - 3 1	- - - -	4 43 4 3 10	- 1 - 2 1	256 352 402	3,501 - - - -	- 77 86 86	287 28 42 3 15†	- - - -	235 210 112 42 85	- - - -	- - 1 †	526 4,039 587 542 338
							(Annual	Percentage	Change)					
Employed Full Time	2003 2004 2005 2006 2007	-3.2% -2.8% -4.9% 2.2%	24.2% -12.9% 1.2% 7.5%	1.8% 1.4% 2.8% 0.9%	7.9% 5.0% -2.5% 7.4%	2.3% -0.3% 3.3% 4.9%	-25.9% 20.1% 2.4% 4.3%	-0.6% 3.7% 0.5% 0.7%	6.3% -4.4% -2.7% 16.1%	6.0% 5.5% 7.2% 9.4%	-13.3% -3.8% 23.9% 7.7%	0.0% 5.4% 2.6% -7.5%	-2.7% 9.7% -6.3% -2.7%	-12.0% 8.1% 3.5% 5.2%
Employed Part Time	2003 2004 2005 2006 2007	10.2% 11.7% -6.1% -10.6%	-3.9% 5.8% -3.0% 1.3%	-13.0% 6.5% 9.8% 8.4%	-1.0% 0.0% 1.3% 2.8%	2.6% 2.1% 4.0% 2.1%	-8.6% 11.3% 3.2% 4.0%	0.7% 1.9% 1.5% 1.7%	43.8% -30.8% 70.1%	4.9% 3.9% 4.8% 4.1%	107.6% 6.9% -38.7% -85.4%	-46.2% 0.0% 14.3% 0.0%	-40.0% -16.7% 20.0%	1.1% 5.0% 2.5% -0.3%
Employed Casual	2003 2004 2005 2006 2007	2.9% 1.3% 2.3% -5.1%	-24.4% 1.7% -2.5% 1.7%	9.3% 5.2% -7.5% -12.8%	8.9% 3.0% 6.1% -4.7%	3.7% 27.2% 10.0% 10.7%	-6.0% 18.3% 1.3% 3.8%	-2.7% 19.0% 10.9% -3.9%	25.0% 78.1% -31.7% -6.4%	9.8% 8.8% 4.2% 7.0%	14.7% 13.3% 40.3% 38.7%	-10.0% 11.1% 20.0% 16.7%	-7.1% 30.8% -35.3% 18.2%	4.0% 17.3% 6.8% 9.1%
								ntage Distri						
Employed Full Time	2003 2004 2005 2006 2007	59.0% 57.3% 55.9% 54.4% 56.4%	37.3% 45.7% 41.3% 42.2% 43.7%	49.6% 50.5% 49.4% 50.0% 50.9%	47.5% 48.7% 49.6% 48.2% 50.1%	39.6% 39.5% 37.6% 37.0% 37.1%	58.7% 53.4% 55.0% 54.9% 55.0%	34.6% 34.5% 34.3% 33.8% 33.8%	58.0% 51.9% 48.5% 45.7% 52.9%	39.3% 39.3% 39.4% 40.0% 41.0%	59.2% 46.4% 43.0% 47.3% 48.0%	61.7% 69.8% 69.6% 66.7% 62.7%	75.5% 79.1% 78.2% 81.3% 82.8%	50.7% 47.1% 46.9% 46.9% 47.4%
Employed Part Time	2003 2004 2005 2006 2007	5.4% 6.0% 6.7% 6.4% 5.9%	37.5% 35.5% 38.9% 38.2% 37.2%	25.6% 22.3% 22.9% 24.8% 27.0%	32.6% 30.7% 29.8% 30.1% 29.9%	46.2% 46.2% 45.0% 44.7% 43.6%	33.4% 37.5% 35.8% 36.0% 35.9%	56.2% 56.6% 55.4% 55.1% 55.6%	25.0% 30.3% 20.5% 33.8%	47.2% 46.7% 46.1% 45.7% 44.7%	13.6% 25.5% 26.2% 14.3% 2.0%	21.7% 13.2% 12.5% 13.3% 13.6%	10.2% 6.6% 5.0% 6.6%	35.2% 37.5% 36.3% 35.9% 34.5%
Employed Casual	2003 2004 2005 2006 2007	35.6% 36.8% 37.4% 39.2% 37.7%	25.2% 18.8% 19.8% 19.5% 19.1%	24.9% 27.2% 27.6% 25.2% 22.1%	19.9% 20.6% 20.6% 21.7% 20.1%	14.2% 14.3% 17.4% 18.2% 19.3%	7.9% 9.1% 9.2% 9.1% 9.1%	9.2% 8.9% 10.2% 11.1% 10.6%	17.0% 17.8% 31.0% 20.5% 19.2%	13.5% 14.0% 14.5% 14.3% 14.3%	27.2% 28.2% 30.8% 38.4% 50.1%	16.7% 17.0% 17.9% 20.0% 23.7%	14.3% 14.3% 16.8% 12.1% 14.9%	14.1% 15.4% 16.7% 17.2% 18.1%

Notes

- Data are not applicable or do not exist.
- * Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.

Totals may not sum to 100% due to rounding.

The data submission method was modified for the 2003 and 2004 data, contributing to substantial increases in the number of LPNs with position status unknown.

Employed LPNs with position status unknown are excluded from the percentage distributions.

Data are not collected for Nunavut.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

[†] Digit suppressed to ensure confidentiality.

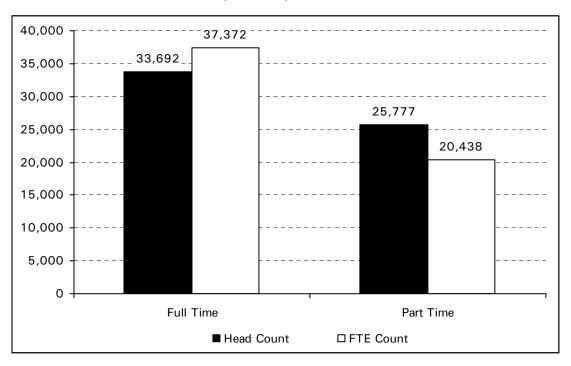
As Table 30 demonstrates, the percentage of the LPN workforce employed on a full-time basis varied across the jurisdictions in 2007, from 33.8% in Manitoba and 48.0% in British Columbia to 56.4% in Newfoundland and Labrador and more than 80% in Northwest Territories and Nunavut. The proportion of LPNs in part-time positions ranged from 2.0% in British Columbia and 5.9% in Newfoundland and Labrador to 44.7% in Alberta and 55.6% in Manitoba. The average age of LPNs was 46.0 years for those working full time, 42.9 years for part-time workers and 40.2 years for casual workers.

A higher proportion of male LPNs (58.1%) than female LPNs (46.4%) were employed in full-time positions in 2007. Only 22.6% of male LPNs had part-time employment, compared to 35.2% of female LPNs. There was a higher proportion of male LPNs employed on a casual basis (18.9%) than female LPNs (17.9%).

Full-Time Equivalents Versus Head Counts

The calculation of full-time equivalents (FTEs) provides another way to represent the supply of LPNs using the number of hours worked. While the data required to calculate FTEs are not collected annually by CIHI, other sources can be used, such as the National Survey of the Work and Health of Nurses, 2005.

Figure 29 Head and FTE Counts of the Licensed Practical Nursing Workforce, by Full-Time or Part-Time Status, Canada, 2005



Source

National Survey of the Work and Health of Nurses, 2005, Statistics Canada (Canadian Institute for Health Information share file).

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vi. See Chapter 5 (Methodological Notes) for further explanation of the FTE calculation.

An FTE has been estimated as the ratio of earned hours over "normal" earned hours, where earned hours are hours worked plus benefits. Using the Statistics Canada definition of a normal work week at 37.3 hours, part-time LPNs have an average FTE value of 0.79 and full-time LPNs have an average FTE value of 1.11. Almost one-fifth of the part-time LPNs worked more than 40 hours per week, and more than half of the full-time LPNs worked more than 40 hours per week. Note that overtime hours (both paid and unpaid) are included in the total number of hours worked.

Multiple Employment

It is not uncommon for LPNs to have more than one nursing job, often with multiple employers. In 2007, 17.7% of the LPN workforce reported having more than one employer in nursing, and the proportion was consistently higher for those working on a part-time or casual basis. Although 52.3% of the 2007 workforce reported working in part-time or casual positions, the total number of hours worked by those in multiple positions may in fact equal or exceed the total of a full-time position.

Table 31 Licensed Practical Nurses Employed in Nursing With Multiple Employers, by Position Status With Primary Employer, Canada, 2003 to 2007

	Employed Full Time	Employed Part Time	Employed Casual	Employed Position Status Unknown	Total With Multiple Employers
			(Count)		
2003	2,943	4,162	2,215	96	9,416
2004	2,460	3,880	2,297	132	8,769
2005	2,922	4,389	2,799	164	10,274
2006	3,293	4,534	3,085	140	11,052
2007	3,913	4,760	3,564	64	12,301
		(,	Annual Percentage	Change)	
2003	_	_	_	_	_
2004	-16.4%	-6.8%	3.7%	_	-6.9%
2005	18.8%	13.1%	21.9%	_	17.2%
2006	12.7%	3.3%	10.2%	_	7.6%
2007	18.8%	5.0%	15.5%	_	11.3%
			(Percentage Distri	ibution)	
2003	31.6%	44.7%	23.8%	_	100.0%
2004	28.5%	44.9%	26.6%	_	100.0%
2005	28.9%	43.4%	27.7%	_	100.0%
2006	30.2%	41.6%	28.3%	_	100.0%
2007	32.0%	38.9%	29.1%	-	100.0%

Notes

Non-response for *multiple employment* element (% of LPN workforce): 2003, n = 813 (1.3%); 2004, n = 436 (0.7%); 2005, n = 249 (0.4%); 2006, n = 175 (0.3%); 2007, n = 159 (0.2%).

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

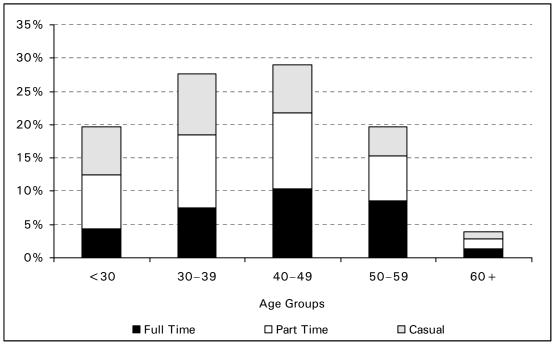
Regulated Nursing Database, Canadian Institute for Health Information.

⁻ Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

Figure 30 shows the distribution of LPNs working for multiple employers across age groups by position status. Within each age group, the distribution of part-time, full-time and casual workers is similar.

Figure 30 Licensed Practical Nurses Employed in Nursing With Multiple Employers, by Position Status, by Age Group, Canada, 2007



Notes

Non-response for *multiple employment* element (% of LPN workforce): 2007, n = 159 (0.2%).

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

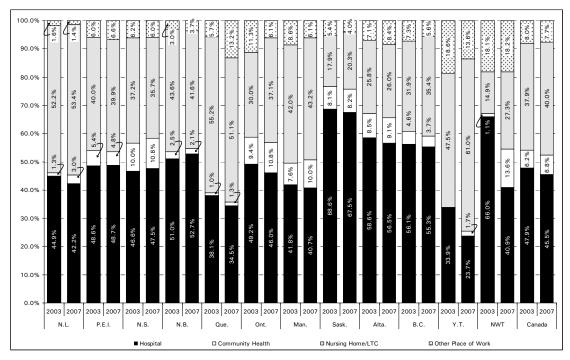
Source

Regulated Nursing Database, Canadian Institute for Health Information.

Location of Work

The hospital sector employs less than half of the LPN workforce in Canada. The sector that grew the most in Canada from 2003 to 2007 was nursing homes/long-term care, from 37.9% to 40.0%.

Figure 31 Licensed Practical Nursing Workforce, by Place of Work, by Jurisdiction and Canada, 2003 and 2007



Notes

Non-response for place of work element (% of LPN workforce): 2003, n = 1,485 (2.4%); 2007, n = 986 (1.4%).

Hospital includes data from hospital (general, maternal, pediatric, psychiatric), mental health centre and rehabilitation/convalescent centre. Community health includes data from community health centre, home care agency, nursing station (outpost or clinic), public health department/unit

Nursing home/LTC includes data from nursing home/long-term care facility.

Other place of work includes data from business/industry/occupational health office, private nursing agency/private duty, self-employed, physician's office/family practice unit, educational institution, association/government and other.

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

In 2007, the average age of LPNs working in the hospital sector was 44.1 years, compared to the average age of 45.5 years for LPNs employed in community health and 43.6 years for LPNs in the nursing home/long-term care sector.

Position Type

In 2007, 63,718 LPNs (92.5%) were employed as staff practical nurses/community health practical nurses in Canada, an increase of 4.7% from 60,831 in 2006, shown in Table 32.

Table 32 Licensed Practical Nursing Workforce, by Position Type, by Jurisdiction and Canada, 2003 to 2007

		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Canada
								(Count)						
Staff Nurse	2003	2,596	529	2,810	2,071	13,937	22,212	2,349	1,817	4,477	3,547	-	-	56,345
	2004	2,578	54†	2,781	2,168	14,163	19,161	2,303	1,894	4,710	4,057	-	8†	54,446
	2005	2,570	55†	2,868	2,233	15,454	20,858	2,450	1,996	4,936	4,479	-	9†	58,496
	2006	2,511	54†	2,906	2,344	16,125	21,533	2,498	2,039	5,245	4,996	-	8†	60,831
	2007	2,460	564	2,864	2,448	16,819	22,892	2,519	2,188	5,560	5,319	-	85	63,718
Manager	2003	-	10	52	39	39	489	19	15	47	65	-	-	775
	2004	_	9	53 67	50	30	522 504	22	16 14	51 55	76 54	-	-	829
	2005 2006	_	7 10	69	57 52	6	548	46 51	17	55 49	54 57	_	_	810 853
	2007	_	†	75	53	_	568	46	15	68	63	_	*	895
Other Positions	2003	106	70	126	318	703	1,954	49	214	211	701	_		4,452
Other residens	2004	121	7 t	142	336	968	1,839	90	214	289	660	_	*	4,734
	2005	122	4†	148	343	603	1,993	94	178	322	349	_	*	4,199
	2006	120	3†	144	250	649	1,887	103	164	320	345	_	*	4,024
	2007	128	5†	157	230	638	2,057	106	176	358	404	-	*	4,308
							(Annual	Percentage	Change)					
Staff Nurse	2003		-	-	-	-	-	-	-	-	-	-	-	-
	2004 2005	-0.7% -0.3%	†	-1.0% 3.1%	4.7% 3.0%	1.6% 9.1%	-13.7% 8.9%	-2.0% 6.4%	4.2% 5.4%	5.2% 4.8%	14.4% 10.4%	_	- †	-3.4% 7.4%
	2005	-0.3%	†	1.3%	5.0%	4.3%	3.2%	2.0%	2.2%	6.3%	11.5%	_	†	4.0%
	2007	-2.0%	Ť	-1.4%	4.4%	4.3%	6.3%	0.8%	7.3%	6.0%	6.5%	_	, †	4.7%
Manager	2003	_	_	_		_	_	_	_	_	_	_	_	_
Wanager	2003	_	-10.0%	1.9%	28.2%	-23.1%	6.7%	15.8%	6.7%	8.5%	16.9%	_	_	7.0%
	2005	_	-22.2%	26.4%	14.0%	-80.0%	-3.4%	109.1%	-12.5%	7.8%	-28.9%	_	_	-2.3%
	2006	_	42.9%	3.0%	-8.8%	-	8.7%	10.9%	21.4%	-10.9%	5.6%	_	_	5.3%
	2007	-	t	8.7%	1.9%	-	3.6%	-9.8%	-11.8%	38.8%	10.5%	-	-	4.9%
Other Positions	2003	_	_	_	_	_	_	_	_	_	_	_	_	_
	2004	14.2%	t	12.7%	5.7%	37.7%	-5.9%	83.7%	0.0%	37.0%	-5.8%	-	-	6.3%
	2005	0.8%	t	4.2%	2.1%	-37.7%	8.4%	4.4%	-16.8%	11.4%	-47.1%	-	Ť	-11.3%
	2006	-1.6%	Ť	-2.7%	-27.1%	7.6%	-5.3%	9.6%	-7.9%	-0.6%	-1.1%	-	Ť	-4.2%
	2007	6.7%	t	9.0%	-8.0%	-1.7%	9.0%	2.9%	7.3%	11.9%	17.1%	-	t	7.1%
								ntage Distr						
Staff Nurse	2003	96.1%	86.9%	94.0%	85.3%	94.9%	90.1%	97.2%	88.8%	94.6%	82.2%	-		91.5%
	2004	95.5%	†	93.4%	84.9%	93.4%	89.0%	95.4%	89.2%	93.3%	84.6%	-	t t	90.7%
	2005 2006	95.5% 95.4%	†	93.0% 93.2%	84.8% 88.6%	96.2% 96.1%	89.3% 89.8%	94.6% 94.2%	91.2% 91.8%	92.9% 93.4%	91.7% 92.6%	_	†	92.1% 92.6%
	2007	95.1%	90.7%	92.5%	89.6%	96.3%	89.7%	94.2%	92.0%	92.9%	91.9%	_	96.6%	92.5%
Manager	2003	_	1.6%	1.7%	1.6%	0.3%	2.0%	0.8%	0.7%	1.0%	1.5%	_	_	1.3%
iviariagei	2003	_	1.4%	1.8%	2.0%	0.2%	2.4%	0.9%	0.8%	1.0%	1.6%	_	_	1.4%
	2005	_	1.2%	2.2%	2.2%	0.0%	2.2%	1.8%	0.6%	1.0%	1.1%	_	_	1.3%
	2006	_	1.7%	2.2%	2.0%	_	2.3%	1.9%	0.8%	0.9%	1.1%	_	_	1.3%
	2007	-	Ť	2.4%	1.9%	-	2.2%	1.7%	0.6%	1.1%	1.1%	-	Ť	1.3%
Other Positions	2003	3.9%	11.5%	4.2%	13.1%	4.8%	7.9%	2.0%	10.5%	4.5%	16.3%	_	-	7.2%
	2004	4.5%	t	4.8%	13.2%	6.4%	8.5%	3.7%	10.1%	5.7%	13.8%	-	t	7.9%
	2005	4.5%	t	4.8%	13.0%	3.8%	8.5%	3.6%	8.1%	6.1%	7.1%	-	t	6.6%
	2006	4.6%	Ť	4.6%	9.4%	3.9%	7.9%	3.9%	7.4%	5.7%	6.4%	-	†	6.1%
	2007	4.9%	Ť	5.1%	8.4%	3.7%	8.1%	4.0%	7.4%	6.0%	7.0%	-	†	6.3%

Notes

- Data are not applicable or do not exist.
- Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.

† Digit suppressed to ensure confidentiality. Non-response for *position type* element (% of LPN workforce): 2003, n=1,566 (2.5%); 2004, n=3,434 (5.4%); 2005, n=1,448 (2.2%); 2006, n = 1,592 (2.4%); 2007, n = 788, (1.1%).

Position type data from the Yukon were not submitted to CIHI.

Staff nurses include LPN/staff nurse/community health nurse.

Manager includes coordinator/care manager.

Other positions include instructor/professor/educator, LPN specialty and other.

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Regulated Nursing Database, Canadian Institute for Health Information.

Area of Responsibility

The proportion of the licensed practical nursing workforce in direct care ranged from 96.6% in the Yukon and 96.9% in New Brunswick to 99.8% in Newfoundland and Labrador and 100% in the Northwest Territories and Nunavut. Many health human resource planners are interested in these totals, as these numbers represent the LPNs providing services directly to patients. Areas of responsibility covered by LPNs that fall outside of direct care include administration, education and research.

Overall, LPNs who provide direct care to patients are younger than those working in administration, education or research. In 2007, the average age was 43.9 years for LPNs in direct care, 46.8 years for LPNs working in administration, 45.5 years for LPNs working in education and 47.8 years for those working in research.

Table 33 Licensed Practical Nursing Workforce, by Area of Responsibility, Canada, 2007

	Counts	Percentage
Direct Care		
Geriatric/Long-Term Care	31,511	45.8%
Medical/Surgical	12,869	18.7%
Psychiatric/Mental Health	3,535	5.1%
Nursing in Several Clinical Areas	2,655	3.9%
Rehabilitation	2,458	3.6%
Community Health	2,318	3.4%
Ambulatory Care	1,209	1.8%
Home Care	1,206	1.8%
Palliative Care	1,080	1.6%
Maternal/Newborn	798	1.2%
Operating Room	734	1.1%
Pediatric	681	1.0%
Emergency Room	676	1.0%
Critical Care (Burn)	249	0.4%
Occupational Health	154	0.2%
Oncology	6†	†
Public Health	*	†
Other Patient Care	5,662	8.2%
Total Direct Care	67,866	98.6%
Administration		
Nursing Service	156	0.2%
Nursing Education	6	< 0.1
Other Administration	405	0.6%
Total Administration	567	0.8%
Education		
Teaching-Students	205	0.3%
Teaching—Employees	22	< 0.1
Teaching—Patients/Clients	13	< 0.1
Other Education	121	0.2%
Total Education	361	0.5%
Research		
Nursing Reseach Only	8	< 0.1
Other Research	10	< 0.1
Total Research	18	< 0.1
Total	68,812	100.0%

Notes

Non-response for area of responsibility element (% of LPN workforce): n = 897 (1.3%).

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

^{*} Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.

[†] Value suppressed to ensure confidentiality.

<0.1 Value is less than or equal to 0.1% of total Canadian workforce; value is not zero.

In 2007, the greatest proportion of LPNs worked in geriatric/long-term care and medical/ surgical areas. These areas are typically among the most frequently identified each year. The area of responsibility with the most LPNs, geriatric/long-term care, also attracts the most recent graduates. In 2007, LPNs in their first five years of nursing accounted for 46.5% of all LPNs working in geriatric/long-term care. LPNs who graduated more than 30 years ago represented 39.5% of geriatric/long-term care LPNs in 2007. Among male LPNs, the most frequently identified areas of responsibility in 2007 were geriatric/long-term care (38.1%) medical/surgical (18.1%) and psychiatric/mental health (16.8%).

Demographic Trends: Sex and Age Composition of the Licensed Practical Nursing Workforce

Almost all LPNs (93%) in the Canadian workforce were female in 2007. This proportion has not changed significantly for the past five years (see Table 34). Additional information on LPN demographic characteristic trends by jurisdiction is available in the data tables on the CIHI website.

Table 34 Licensed Practical Nursing Workforce, by Sex, by Jurisdiction and Canada, 2003 to 2007

		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Canada
								(Count)						
Female	2003	2,341	573	2,873	2,194	13,642	24,181	2,328	2,003	4,537	4,013	5†	9†	58,832
	2004	2,346	579	2,899	2,303	14,240	22,987	2,315	2,074	4,826	4,386	5†	7†	59,084
	2005	2,353	555	2,968	2,364	15,002	23,033	2,472	2,128	5,076	4,442	5†	8†	60,530
	2006	2,307	548	3,011	2,366	15,712	23,596	2,522	2,157	5,361	4,906	5†	7†	62,621
	2007	2,268	567	2,995	2,444	16,068	24,543	2,537	2,305	5,718	5,239	5†	7 †	64,818
Male	2003	378	46	149	235	1,189	1,549	89	53	229	378	*	t	4,306
	2004	364	49	159	253	1,232	1,480	100	57	225	425	*	1†	4,359
	2005	345	51	159	269	1,291	1,425	118	66	237	442	*	1†	4,423
	2006	332	51	163	280	1,392	1,488	130	67	253	506	*	1†	4,679
	2007	330	56	165	290	1,424	1,583	134	76	268	552	*	1†	4,891
						(A	nnual Perce	entage Char	nge)					
Female	2003	_	_	_	_	_	_	_	_	_	_	_	_	_
	2004	0.2%	1.0%	0.9%	5.0%	4.4%	-4.9%	-0.6%	3.5%	6.4%	9.3%	t	t	0.4%
	2005	0.3%	-4.1%	2.4%	2.6%	5.4%	0.2%	6.8%	2.6%	5.2%	1.3%	t	t	2.4%
	2006	-2.0%	-1.3%	1.4%	0.1%	4.7%	2.4%	2.0%	1.4%	5.6%	10.4%	t	t	3.5%
	2007	-1.7%	3.5%	-0.5%	3.3%	2.3%	4.0%	0.6%	6.9%	6.7%	6.8%	t	t	3.5%
Male	2003	_	_	_	_	_	_	_	_	_	_	_	_	_
	2004	-3.7%	6.5%	6.7%	7.7%	3.6%	-4.5%	12.4%	7.5%	-1.7%	12.4%	†	t	1.2%
	2005	-5.2%	4.1%	0.0%	6.3%	4.8%	-3.7%	18.0%	15.8%	5.3%	4.0%	t	t	1.5%
	2006	-3.8%	0.0%	2.5%	4.1%	7.8%	4.4%	10.2%	1.5%	6.8%	14.5%	t	t	5.8%
	2007	-0.6%	9.8%	1.2%	3.6%	2.3%	6.4%	3.1%	13.4%	5.9%	9.1%	†	t	4.5%
						(Percentage	Distributio	n)					
Female	2003	86.1%	92.6%	95.1%	90.3%	92.0%	94.0%	96.3%	97.4%	95.2%	91.4%	t	t	93.2%
	2004	86.6%	92.2%	94.8%	90.1%	92.0%	94.0%	95.9%	97.3%	95.5%	91.2%	t	t	93.1%
	2005	87.2%	91.6%	94.9%	89.8%	92.1%	94.2%	95.4%	97.0%	95.5%	91.0%	t	t	93.2%
	2006	87.4%	91.5%	94.9%	89.4%	91.9%	94.1%	95.1%	97.0%	95.5%	90.7%	t	t	93.0%
	2007	87.3%	91.0%	94.8%	89.4%	91.9%	93.9%	95.0%	96.8%	95.5%	90.5%	Ť	Ť	93.0%
Male	2003	13.9%	7.4%	4.9%	9.7%	8.0%	6.0%	3.7%	2.6%	4.8%	8.6%	t	t	6.8%
	2004	13.4%	7.8%	5.2%	9.9%	8.0%	6.0%	4.1%	2.7%	4.5%	8.8%	†	Ť	6.9%
	2005	12.8%	8.4%	5.1%	10.2%	7.9%	5.8%	4.6%	3.0%	4.5%	9.0%	Ť	Ť	6.8%
	2006	12.6%	8.5%	5.1%	10.6%	8.1%	5.9%	4.9%	3.0%	4.5%	9.3%	Ť	Ť	7.0%
	2007	12.7%	9.0%	5.2%	10.6%	8.1%	6.1%	5.0%	3.2%	4.5%	9.5%	†	†	7.0%

Notes

- Data are not applicable or do not exist.
- * Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

[†] Digit suppressed to ensure confidentiality.

More than half of all male LPNs in the workforce (61.5%) were employed in Ontario and Quebec in 2007. Jurisdictions with the highest proportions of male LPNs were Newfoundland and Labrador at 12.7% and New Brunswick at 10.6%. In contrast, 3.2% of Saskatchewan's LPNs were male.

While representing only 7.0% of the overall LPN workforce in 2007, males accounted for 23% of LPNs employed in psychiatry/mental health. Interestingly, this increased proportion of males is similar to the pattern for male registered psychiatric nurses (RPNs) regulated in the four western provinces. The proportion of males in the RPN profession was more than 22% in 2007.

Generation Gaps

For the first time in recent history, the workforce spans four generations.¹ This presents significant challenges and opportunities for health human resource planners as well as for managers at the institutional level. Different strategies may be required to entice and motivate the members of each generation, requiring an understanding of each generation's unique set of characteristics, values and perceptions of the ideal workplace.²

According to the literature,¹ members of the veteran generation (born between 1922 and 1945) value hard work and self-sacrifice and respect authority. The baby boomers (born between 1946 and 1964) tend to question authority and value status, and are sometimes workaholics. The generation Xers (born between 1965 and 1980) tend toward self-reliance, value career security over job security, are accustomed to direct and immediate communication and are more interested in achieving work–life balance. Finally, members of the youngest generation in the LPN workforce, generation Y (born after 1980), tend to be more goal-oriented, desire immediate feedback and favour meaningful work.

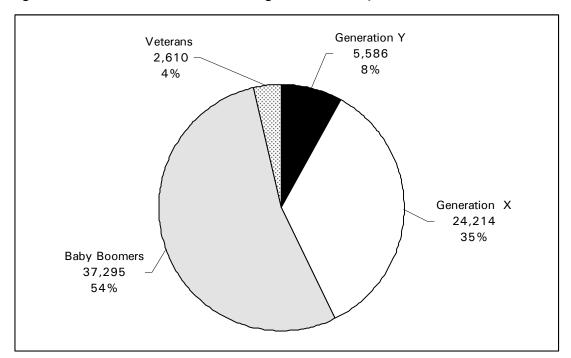


Figure 32 Licensed Practical Nursing Workforce, by Generation, Canada, 2007

Non-response for date of birth element (% of all LPNs): n = 3, (<0.1%).

Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

As is evident from Figure 32, the generation representing the highest proportion of the licensed practical nursing workforce in 2007 was the baby boomer generation (age 43 to 61). This generation consists of LPNs as many as two decades away from retirement, as well as many within a few years of retirement. Most of the veterans and a proportion of the baby boomers can reasonably be expected to leave the workforce in the next several years.

It is particularly important to track the older age groups in order to predict exit trends. In 2007, almost half the jurisdictions (Newfoundland and Labrador, Prince Edward Island, Nova Scotia, Quebec and the Yukon) had their highest proportion of nurses in the 45-to-49 age group. In Canada as a whole, the four age groups defined as baby boomers were the largest.

Table 35 Licensed Practical Nursing Workforce, by Age Group, by Jurisdiction and Canada, 2007

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Canada	
<20	0.0%	0.0%	0.0%	0.0%	< 0.1%	0.0%	0.0%	< 0.1%	0.0%	0.0%	0.0%	0.0%	< 0.1%	
20-24	1.3%	1.6%	1.7%	3.4%	5.3%	4.2%	1.8%	5.6%	6.2%	4.9%	0.0%	1.1%	4.4%	Generation Y
25-29	7.3%	8.2%	5.9%	9.6%	10.6%	7.6%	8.6%	12.0%	13.0%	11.8%	0.0%	3.4%	9.3%	
30-34	8.1%	6.7%	10.4%	11.4%	10.8%	8.7%	10.4%	10.5%	10.0%	11.6%	7.0%	8.0%	9.9%	O
35-39	13.5%	12.0%	13.8%	13.4%	11.4%	11.4%	11.0%	9.2%	10.1%	12.6%	8.8%	17.0%	11.6%	Generation X
40-44	16.0%	14.4%	14.7%	14.9%	13.9%	13.6%	12.3%	10.8%	11.0%	13.2%	14.0%	13.6%	13.5%	
45-49	18.7%	18.5%	17.7%	15.1%	16.4%	15.1%	14.9%	14.2%	13.6%	14.9%	28.1%	18.2%	15.5%	Baby
50-54	16.9%	17.0%	17.0%	15.6%	16.2%	17.0%	17.1%	19.0%	14.3%	15.8%	15.8%	20.5%	16.5%	Boomers
55-59	12.6%	13.8%	12.1%	10.4%	11.3%	13.9%	14.2%	11.4%	11.6%	10.6%	19.3%	9.1%	12.4%	
60-64	5.4%	5.8%	5.7%	5.2%	3.3%	6.8%	8.1%	6.4%	7.8%	4.2%	5.3%	9.1%	5.6%	
65 +	0.2%	1.9%	1.0%	1.0%	0.8%	1.7%	1.5%	0.9%	2.5%	0.5%	1.8%	0.0%	1.3%	Veterans

<0.1 Value is less than or equal to 0.1% of total Canadian workforce; value is not zero.

Non-response for year of birth element (% of LPN workforce): n = 3 (<0.1%).

Totals may not sum to 100% due to rounding.

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Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

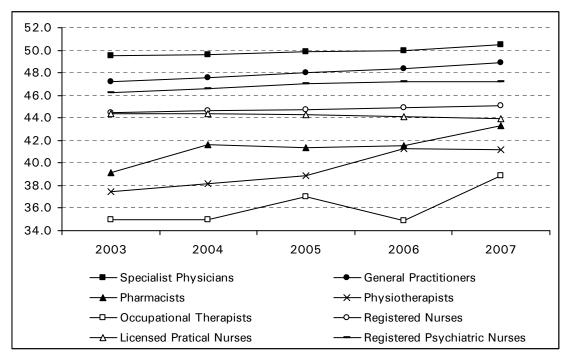
Source

Regulated Nursing Database, Canadian Institute for Health Information.

Average Age of the Workforce

Average age may be used in addition to age groupings to describe trends and to make comparisons between the LPN workforce and other professions. As Figure 33 shows, the average age of selected health occupations increased over the period 2003 to 2007. In addition to the aging of each worker, several variables affect the rate at which the average age of the workforce changes. They include the rates of entry into and exit from the workforce and the ages of the workers entering and exiting the workforce.

Figure 33 Average Age of Licensed Practical Nursing Workforce Compared to Selected Health Occupations, Canada, 2003 to 2007



Totals may not sum to 100% due to rounding.

Occupational therapists data do not include Quebec and data for 43 registrants in Manitoba, where age was not provided.

Physiotherapists data do not include Nova Scotia, the Northwest Territories and Nunavut.

Pharmacists data for New Brunswick, Quebec, Manitoba and Nunavut are not available. Findings do not include the Yukon, as age was not collected/submitted.

In 2007, the College of Registered Nurses of Manitoba submitted aggregate tables for sex and average age.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Sources

Regulated Nursing Database, Scott's Medical Database, Occupational Therapist Database, Physiotherapist Database, Pharmacist Database, Canadian Institute for Health Information; Labour Force Survey, Statistics Canada.

Table 36 shows the range of average ages across the country from 2003 to 2007. In each case, the change from the previous year was relatively small. The average age for Canadian LPNs remained stable from 2003 to 2004 and has declined slightly since then, to 44.1 in 2006 and 43.9 in 2007. The largest increases were in the Yukon and the Northwest Territories, where the average age rose by 0.7 years. The average age fell in Quebec, Ontario, Saskatchewan, Alberta and British Columbia.

Table 36 Average Age of the Licensed Practical Nursing Workforce, by Jurisdiction and Canada, 2003 to 2007

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Canada
						A	verage Age)					
2003	43.8	44.4	42.9	42.8	44.4	44.6	45.0	44.4	44.4	45.3	45.9	43.3	44.4
2004	44.2	44.8	43.7	42.7	44.1	44.9	45.0	44.4	44.2	44.7	46.6	44.1	44.4
2005	44.4	45.0	44.1	42.8	43.6	45.2	44.9	44.0	43.8	43.5	47.1	43.5	44.3
2006	44.5	45.0	44.4	43.0	43.0	45.1	45.2	44.1	43.5	42.9	47.6	44.9	44.1
2007	44.8	45.5	44.9	43.2	42.7	44.9	45.4	43.5	43.3	42.3	48.3	45.6	43.9
					Annu	al Increase	/Decrease i	n Average	Age				
2003	_	_	_	_	_	_	_	_	_	_	_	_	_
2004	0.4	0.5	0.7	-0.1	-0.4	0.3	0.0	0.0	-0.2	-0.5	0.6	0.8	0.0
2005	0.3	0.1	0.4	0.1	-0.5	0.4	-0.1	-0.4	-0.5	-1.2	0.5	-0.6	-0.1
2006	0.1	0.0	0.4	0.1	-0.5	-0.1	0.3	0.1	-0.3	-0.6	0.5	1.5	-0.2
2007	0.3	0.5	0.5	0.3	-0.3	-0.2	0.2	-0.6	-0.2	-0.5	0.7	0.7	-0.2

Notes

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology. See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Exiting and Entering the Workforce

Figure 34 shows three rates that influence the number of licensed practical nurses under the age of 30 available to work each year. The rate of new registrations includes those LPNs who registered in a specific jurisdiction in year x and who were not registered in that same jurisdiction in the previous year (year x - 1). The retention rate includes those LPNs who registered in the same jurisdiction in both year x and in year x - 1. The exit rate represents those LPNs who were registered in year x - 1 in a specific jurisdiction, but who did not register in the same jurisdiction in year x.

Note that the totals presented in Figure 34 and Table 37 represent all LPNs who registered with a specific jurisdiction, not only the workforce. A new registrant may be a new graduate, an immigrant, an interprovincial mover or an LPN re-registering following an absence of one year or more. An exit may be an LPN who has left the profession (either temporarily or permanently) or retired, or an LPN who is registered in another jurisdiction or country in year x and may still be practising nursing in another province, territory or country.

Data are not applicable or do not exist.

New LPN (<30) New LPN (<30) New LPN (<30) New LPN (<30) registrations registrations registrations registrations in 2004 in 2005 in 2006 in 2007 Rate = 28.6% (2,264) Rate = 30.7%Rate = 30.5%Rate = 29.2% (3,274) (3,038) (2.690)2007 total 2003 total LPN registrations Retention rate Retention rate Retention rate Retention rate LPN registrations in age group <30 90.1% (7,147) 91.3% (7,994) 91.7% (9,146) in age group <30 11,226 from 2003 from 2004 from 2005 from 2006 7,394 including 1,194 LPNs who changed age groups) LPNs (<30) LPNs (<30) LPNs (<30) LPNs (<30) registered registered registered registered Legend: in 2005 + in 2003 + in 2004 + in 2006 + Total LPN Registrations not in 2004 not in 2005 not in 2006 not in 2007 (Age Group < 30) Exit rate = 8.3% Exit rate = 9.5%Exit rate = 9.9% Exit rate = 8.7% (701)(782)(758)(830) LPNs Who Did Not Register Within Same Jurisdiction 2004 total 2005 total 2006 total as Previous Year

Figure 34 Licensed Practical Nurses Age Younger Than 30: Rate of New Registrations, Retention Rates and Exit Rates, Canada, 2003 to 2007

New registrations + retention rate may not add to total registrations, as some LPNs changed age groups from one year to the next. Non-response for *age group* element (% of LPN workforce): 2003, n = 3 (<0.1%); 2004, n = 2 (<0.1%); 2005, n = 3 (<0.1%); 2006, n = 2 (<0.1%); 2007, n = 5 (<0.1%).

LPN registrations

in age group < 30

8.752

Rates will not sum to 100%.

CIHI collects data after the first six months of the 12-month registration period. This may result in 1% to 5% under-coverage (loss of new registrants who registered after month 6 of the registration period).

LPN registrations

in age group <30

9.976

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

LPN registrations

in age group <30

7,929

Table 37 shows new registration rates and exit rates by province and by age group. In 2007, the Canadian entry rate into the LPN workforce was 13.3% from the previous year, meaning that 13.3% of the total LPN workforce was new to their jurisdiction of registration that year. Of these, 29.2% were in the under-30 age cohort.

Higher exit rates are seen in the older age groups. Given the low registration rates for the group of LPNs over the age of 60, it can be concluded that a significant portion of the 21.4% of LPNs over the age of 60 who did not re-register in 2007 (2006 exits) retired from nursing. The LPNs under the age of 30 who did not re-register in 2007 (8.3%) may have moved to another jurisdiction within or outside of Canada to continue practising nursing, may have pursued further education, may have taken a leave of absence or may have left the profession.

The LPNs in the 40-to-49 age group demonstrated low exit rates during the period 2003 to 2007, indicating a low rate of mobility. It appears that most of the LPNs in this age group tend to stay in the workforce, in the same jurisdiction, until at least age 50, at which time the exit rate increases slightly. The higher entry and exit rates of LPNs in the north should be interpreted with caution as the numbers are small.

Table 37 Licensed Practical Nurses: Rate of New Registrations and Exit Rates, by Age Group, by Jurisdiction and Canada, 2003 to 2007

	Age Groups		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Territories	Canada
New	<30		25.0%	26.9%	24.1%	28.8%	31.3%	22.0%	29.2%	25.5%	31.7%	43.4%	22.2%	28.6%
Registration		2005	26.3%	26.8%	27.8%	16.6%	31.8%	28.0%	26.6%	32.7%	34.9%	40.1%	44.4%	30.7%
Rates		2006	22.4%	32.3%	30.9%	26.9%	27.8%	33.2%	26.2%	14.0%	32.5%	40.0%	57.1%	30.5%
		2007	21.4%	21.5%	36.0%	9.7%	29.0%	31.3%	22.9%	32.2%	24.3%	36.6%	75.0%	29.2%
	30-39	2004	6.3%	8.1%	9.2%	14.3%	15.3%	6.9%	18.8%	12.5%	16.5%	22.1%	6.7%	11.5%
		2005	6.1%	5.7%	10.7%	10.1%	18.1%	8.6%	12.9%	21.5%	16.5%	22.0%	29.4%	13.1%
		2006	6.0%	8.0%	14.0%	14.1%	19.1%	9.7%	12.0%	10.0%	20.2%	24.8%	13.3%	14.6%
		2007	6.7%	10.2%	10.8%	10.1%	19.1%	10.5%	11.9%	20.4%	16.4%	20.3%	29.0%	14.4%
	40-49	2004	2.9%	2.3%	5.1%	7.8%	5.3%	3.5%	6.2%	4.3%	6.4%	13.7%	10.7%	5.2%
		2005	3.3%	4.2%	5.1%	5.2%	7.4%	4.2%	7.5%	6.0%	9.3%	13.2%	19.0%	6.2%
		2006	2.0%	7.8%	4.6%	6.1%	6.9%	4.9%	6.2%	3.3%	10.3%	15.7%	10.3%	6.5%
		2007	1.9%	3.8%	5.9%	4.4%	7.5%	5.2%	5.7%	7.2%	9.0%	13.1%	12.7%	6.6%
	50-59	2004	1.6%	8.5%	3.8%	1.8%	1.2%	0.7%	0.7%	1.4%	2.3%	3.2%	0.0%	1.4%
		2005	1.2%	0.0%	3.8%	0.8%	1.5%	1.4%	1.6%	1.4%	1.2%	2.5%	0.0%	1.5%
		2006	3.6%	0.0%	2.0%	4.1%	1.1%	1.4%	0.9%	1.9%	3.5%	5.9%	12.5%	2.0%
		2007	1.4%	0.0%	1.9%	2.3%	53.6%	1.0%	0.8%	2.3%	2.5%	2.8%	7.7%	8.8%
	60+	2004	1.6%	8.5%	3.8%	1.8%	1.2%	0.7%	0.7%	1.4%	2.3%	3.2%	0.0%	1.4%
		2005	1.2%	0.0%	3.8%	0.8%	1.5%	1.4%	1.6%	1.4%	1.2%	2.5%	0.0%	1.5%
		2006	3.6%	0.0%	2.0%	4.1%	1.1%	1.4%	0.9%	1.9%	3.5%	5.9%	12.5%	2.0%
		2007	1.4%	0.0%	1.9%	2.3%	53.6%	1.0%	0.8%	2.3%	2.5%	2.8%	7.7%	8.8%
Exit Rates	< 30	2003	11.0%	8.2%	19.6%	7.4%	6.7%	10.0%	7.5%	10.5%	10.4%	10.8%	16.7%	9.5%
		2004	6.8%	3.8%	14.6%	7.9%	7.2%	11.1%	6.1%	8.4%	13.1%	14.1%	22.2%	9.9%
		2005	4.5%	8.9%	10.6%	10.1%	9.7%	5.3%	8.9%	9.2%	10.1%	11.9%	44.4%	8.7%
		2006	8.0%	6.5%	13.9%	8.8%	10.1%	3.5%	10.6%	11.3%	10.6%	8.9%	71.4%	8.3%
	30-39	2003	4.5%	3.2%	9.8%	7.2%	5.2%	7.3%	6.7%	5.7%	6.3%	8.0%	19.4%	6.7%
		2004	3.5%	4.7%	8.6%	6.7%	5.2%	8.6%	6.0%	9.2%	8.5%	12.5%	13.3%	7.7%
		2005	5.3%	5.7%	7.0%	8.6%	7.5%	4.3%	4.2%	7.9%	9.4%	6.2%	17.6%	6.1%
		2006	4.3%	8.8%	11.3%	5.0%	7.2%	3.6%	8.9%	6.5%	9.1%	6.7%	23.3%	6.1%
	40-49	2003	2.9%	3.9%	6.3%	3.3%	3.0%	5.0%	3.6%	3.7%	4.7%	5.6%	11.9%	4.4%
		2004	2.3%	3.2%	5.2%	2.9%	2.9%	5.4%	3.9%	4.4%	5.4%	9.9%	8.9%	4.8%
		2005	2.9%	4.7%	4.4%	5.0%	2.9%	4.0%	3.4%	4.0%	5.0%	6.9%	9.5%	4.0%
		2006	3.2%	4.1%	5.1%	3.2%	3.0%	2.8%	5.1%	3.6%	4.3%	8.0%	15.5%	3.6%
	50-59	2003	7.0%	4.3%	7.6%	8.0%	9.1%	5.7%	7.9%	5.8%	4.0%	7.2%	10.9%	6.8%
		2004	7.4%	3.9%	7.3%	7.3%	9.6%	6.3%	4.4%	6.4%	5.7%	17.9%	8.5%	7.9%
		2005	10.9%	6.2%	5.2%	9.6%	10.8%	5.3%	3.9%	6.4%	6.7%	10.7%	10.6%	7.4%
		2006	7.1%	4.2%	6.3%	5.6%	54.5%	4.0%	4.5%	4.3%	4.2%	12.7%	11.3%	16.4%
	60+	2003	34.0%	10.3%	23.9%	16.8%	20.5%	14.4%	20.7%	16.5%	10.1%	30.1%	40.0%	17.1%
		2004	33.9%	23.4%	16.7%	18.0%	21.3%	15.3%	10.9%	22.0%	14.1%	42.4%	20.0%	18.5%
		2005	31.4%	21.7%	11.9%	18.4%	23.2%	14.9%	9.3%	16.8%	11.5%	27.3%	0.0%	16.7%
		2006	19.6%	12.5%	18.2%	15.1%	62.4%	11.7%	12.9%	22.2%	13.3%	33.3%	12.5%	21.4%

Rates will not sum to 100%.

CIHI collects data after the first six months of the 12-month registration period. This may result in 1% to 5% under-coverage (loss of new registrants who registered after month 6 of the registration period).

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Source

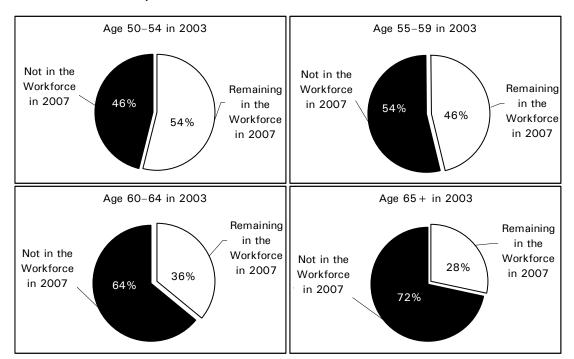
Regulated Nursing Database, Canadian Institute for Health Information.

Aging of Baby Boomers

Figure 35 illustrates the change to four age cohorts of LPNs over time. Each cohort was tracked in 2003 and in 2007. Of those who were between 50 and 54 in 2003, 46% had left the workforce by 2007; of those age 65 + in 2003, 72% had left the workforce by 2007. While leaving the workforce in a specific jurisdiction includes interprovincial moves, it can be reasonably assumed that a significant proportion of the exits in these age groups represents retirements.

Although the exit rate for the oldest cohort was the highest, the largest changes to the workforce came from the departure of the cohort aged 50 to 54 in 2003.

Figure 35 Licensed Practical Nurses Aged 50 + Exiting or Remaining in the Workforce, Canada, 2003 and 2007



Notes

Totals may not sum to 100% due to rounding.

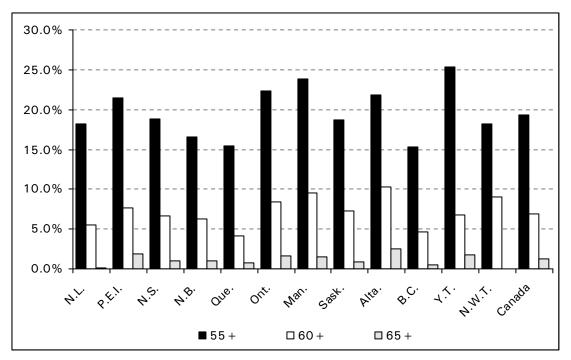
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Source

Regulated Nursing Database, Canadian Institute for Health Information.

Figure 36 highlights the proportion of the LPN workforce in each province/territory at or above three typical ages of retirement in 2007: 55, 60 and 65. Note that this illustration is cumulative. An LPN at age 65 is counted in all three categories, and an LPN at age 60 is counted in two categories.

Figure 36 Licensed Practical Nursing Workforce, by Age Groups 55+, 60+ and 65+, by Jurisdiction and Canada, 2007



Notes

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Years Since Graduation

As employment patterns of LPNs change as their careers evolve, assumptions and analyses based on age indicators alone may be incomplete. It may be useful as well to consider the number of years since graduation from an LPN program.

Figure 37 illustrates the distribution of LPNs by number of years since graduation. Note that this indicates the maximum number of years an LPN could have been in the workforce, and does not necessarily reflect the actual number of years worked, because time spent out of the workforce (such as in continuing education or family leave) is not accounted for.

100.09 90.09 18.9% 70.0% 60.0% 33.9% 50.0% 30.0% 20.0% 10.0% 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 N.S. Que. B.C. N.B. Ont. Man. Sask. N.W.T. □ 11-20

Figure 37 Licensed Practical Nursing Workforce, by Years Since LPN Graduation, by Jurisdiction and Canada, 2003 and 2007

Non-response for *year of graduation* element (% of LPN workforce): 2003, n = 503 (0.8%); 2007, n = 128 (0.2%). Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

The trend from 2003 to 2007 shows an increase in most provinces in the proportion of LPNs in the group 31 + years since graduation, but a decrease in Quebec, Alberta and British Columbia. In Quebec, Manitoba, Saskatchewan, Alberta and British Columbia, the cohort 0 to 10 years since graduation increased more quickly than in other jurisdictions.

Education Trends: Lifelong Learning

Entry-to-Practice Education

Educational programs for licensed practical nurses are offered in most Canadian jurisdictions. The first formal LPN training program was offered in 1945 in Manitoba. Other jurisdictions followed by delivering similar programs tailored to meet jurisdictional needs while offering variation in content and expectations. Once delivered primarily in hospitals, practical nursing education is now offered in postsecondary institutions.

LPNs in Canada graduate from an approved program with a diploma or equivalency. Equivalency status is granted to an individual coming from another jurisdictional LPN program or educated in another country. An assessment of equivalency by LPN regulatory bodies can permit initial registration as an LPN.

Graduates of an approved program are eligible to write national examinations and are eligible for licensure if they achieve a passing grade. The national exam is written in all jurisdictions except Quebec, which administers a provincial examination.

In the 2007 LPN workforce, a total of 68,329, or 98% of LPNs, had obtained a diploma as their highest education in practical nursing (see Table 38). The remaining 2% have equivalencies.

Table 38 Licensed Practical Nursing Workforce, by Diploma or Equivalency, by Jurisdiction and Canada, 2003 to 2007

		N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Canada
								(Count)						
Diploma/	2003	-	-	-	-	-	-	-	-	-	-	-	-	-
Certificate	2004	2,662	61†	3,005	2,538	15,081	24,46†	2,220	2,075	4,941	4,449	53	91	62,198
	2005	2,651	60†	3,077	2,615	15,916	24,45†	2,401	2,142	5,207	4,425	56	101	63,647
	2006	2,591	59†	3,125	2,629	16,655	25,08†	2,457	2,172	5,510	4,990	60	92	65,955
	2007	2,551	616	3,112	2,718	16,967	26,126	2,467	2,329	5,890	5,406	59	88	68,329
Equivalency	2003	-	-	-	-	-	-	-	-	-	-	-	-	-
	2004	48	t	53	18	391	*	195	56	110	362	-	-	1,245
	2005	47	Ť	50	18	377	*	189	52	106	459	-	-	1,306
	2006	48	†	49	17	449	*	195	52	104	422	_	-	1,345
	2007	47	7	48	16	525	-	204	52	96	385	-	-	1,380
						(A	innual Perce	ntage Char	nge)					
Diploma/	2003	_	_	_	_	_	_	_	_	_	_	_	_	_
Certificate	2004	-	-	-	-	_	-	-	-	-	_	_	-	-
	2005	-0.4%	t	2.4%	3.0%	5.5%	t	8.2%	3.2%	5.4%	-0.5%	5.7%	11.0%	2.3%
	2006	-2.3%	t	1.6%	0.5%	4.6%	t	2.3%	1.4%	5.8%	12.8%	7.1%	-8.9%	3.6%
	2007	-1.5%	t	-0.4%	3.4%	1.9%	†	0.4%	7.2%	6.9%	8.3%	-1.7%	-4.3%	3.6%
Equivalency	2003	-	-	-	-	-	-	-	-	-	-	-	-	-
	2004	-	-	-	-	-	-	-	-	-	-	_	-	-
	2005	-2.1%	†	-5.7%	0.0%	-3.6%	Ť	-3.1%	-7.1%	-3.6%	26.8%	_	-	4.9%
	2006	2.1%	†	-2.0%	-5.6%	19.1%	Ť	3.2%	0.0%	-1.9%	-8.1%	_	-	3.0%
	2007	-2.1%	t	-2.0%	-5.9%	16.9%	†	4.6%	0.0%	-7.7%	-8.8%	-	-	2.6%
							(Percentage	Distributio	n)					
Diploma/	2003	-	-	-	-	_	-	-	-	-	_	_	-	-
Certificate	2004	98.2%	t	98.3%	99.3%	97.5%	t	91.9%	97.4%	97.8%	92.5%	100.0%	100.0%	98.0%
	2005	98.3%	t	98.4%	99.3%	97.7%	t	92.7%	97.6%	98.0%	90.6%	100.0%	100.0%	98.0%
	2006	98.2%	t	98.5%	99.4%	97.4%	t	92.6%	97.7%	98.1%	92.2%	100.0%	100.0%	98.0%
	2007	98.2%	98.9%	98.5%	99.4%	97.0%	100.0%	92.4%	97.8%	98.4%	93.4%	100.0%	100.0%	98.0%
Equivalency	2003	-	-	-	-	-	-	-	-	-	-	-	-	-
	2004	1.8%	t	1.7%	0.7%	2.5%	t	8.1%	2.6%	2.2%	7.5%	-	-	2.0%
	2005	1.7%	t	1.6%	0.7%	2.3%	Ť	7.3%	2.4%	2.0%	9.4%	-	-	2.0%
	2006	1.8%	†	1.5%	0.6%	2.6%	t	7.4%	2.3%	1.9%	7.8%	-	-	2.0%
	2007	1.8%	1.1%	1.5%	0.6%	3.0%	-	7.6%	2.2%	1.6%	6.6%	-	-	2.0%

Notes

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

^{*} Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.

[†] Digit suppressed to ensure confidentiality.

Totals may not sum to 100% due to rounding.

Average Age at Graduation

The age at which a student graduates from a nursing program and is eligible to enter the LPN workforce is an important indicator of the number of years an average LPN will contribute to the workforce. As Table 39 illustrates, practical nurses have been entering the workforce later; thus, unless they stay later at the end of their careers, their numbers of years of service will be reduced.

Table 39 Licensed Practical Nursing Graduates and Average Age at Graduation, by Range of Graduation Years, Canada, 1980 to 2007

Graduation Year	Number of Graduates	Average Age at Graduation
1980-1984	6,275	23.1
1985-1989	6,180	26.2
1990-1994	7,964	29.1
1995-1999	7,213	30.0
2000-2004	13,641	30.9
2005 +	9,522	31.1

Note

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information

The trend of increasing age at graduation slowed since the changes seen prior to the early 1990s. However, the proportion of LPNs graduating and entering the workforce at the age of 30 or older increased since 2003. In 2007, 54.3% of the workforce who had graduated in the previous three years were over the age of 30 when they graduated.

Mobility Trends: A Mobile Workforce

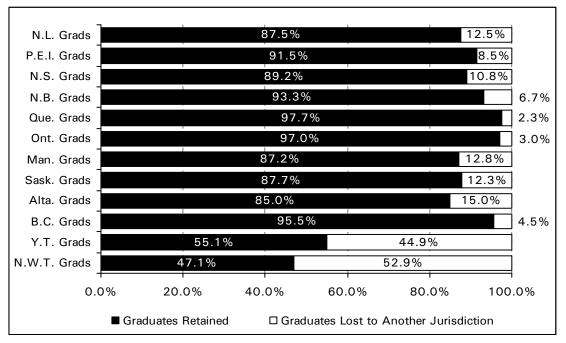
Regulated nurses are in demand in Canada and around the world. As a result, graduates from regulated nursing programs often have numerous options as to where they will practise. Canadian graduates may choose to remain in their current province or territory, to migrate to another Canadian province or territory or to emigrate to another country. International graduates may choose to immigrate to Canada, either through their own initiative or through a provincial nursing recruitment program.

As CIHI does not collect citizenship or immigration data, the mobility trends in this chapter related to interprovincial, territorial and international mobility are based on indicators developed by CIHI using data on employment, location of residence and location of graduation. Additional information on LPN mobility trends is available in the data tables on the CIHI website.

Migration Within Canada

Each provincial/territorial workforce combines licensed practical nursing graduates from within the jurisdiction, graduates from other Canadian jurisdictions and graduates from outside the country. Overall, more than 9 out of 10 graduates (94.3%) from Canadian licensed practical nursing programs who were working in Canada in 2007 either did not move after graduation or eventually returned to their jurisdiction of graduation.

Figure 38 Licensed Practical Nursing Workforce by Jurisdiction of Graduation and Registration, Canada, 2007



Notes

Includes only graduates from Canadian LPN programs (N = 67,802).

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Figure 39 shows the top three most frequent destinations for those who moved sometime between their graduation year and 2007, comparing the jurisdiction of graduation to the current jurisdiction of registration. The data do not account for mobility and migration in the intervening years.

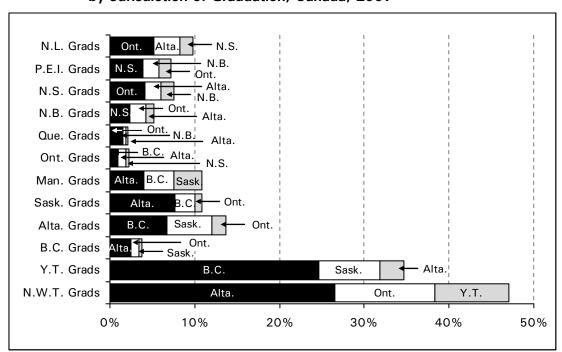


Figure 39 Top Three Destinations for Licensed Practical Nursing Graduates by Jurisdiction of Graduation, Canada, 2007

Includes only graduates from Canadian LPN programs (N = 67,802).

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

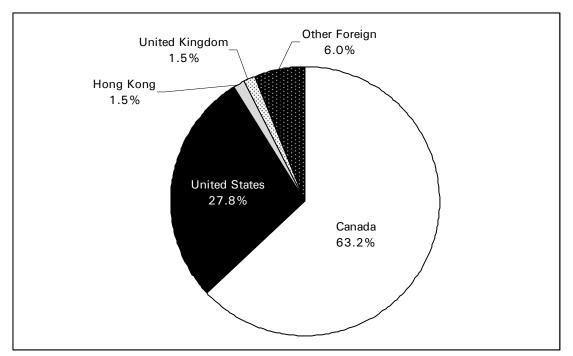
Overall, the provinces of British Columbia, Alberta and Ontario figure prominently as destinations for graduates from across the country, as is the case for the RN profession as well. In contrast, none of Quebec's, 0.5% of the Yukon's and 1.3% of Prince Edward Island's LPN workforces graduated from Canadian practical nursing programs outside their province of registration, the lowest rates in the country.

Working Outside Province/Territory of Registration

LPNs who work outside of their province or territory of registration may be working outside Canada or in another jurisdiction within Canada. Note that CIHI can report on LPNs working outside Canada only if they maintain registration with a Canadian province or territory.

Figure 40 illustrates the top destinations for LPNs registered in a Canadian province or territory who are working either abroad or in another jurisdiction in Canada. Of the 334 LPNs who are not working in their province/territory of registration, 93 (27.8%) are employed in the United States; an additional 9% are employed in other locations.

Figure 40 Licensed Practical Nurses Working Outside of Jurisdiction of Registration, by Country of Employment, Canada, 2007



Notes

Includes only those LPNs who worked outside of their jurisdiction of registration (N $\,=\,314$) in 2007.

Totals may not sum to 100% due to rounding.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

International Licensed Practical Nursing Graduates

In the absence of citizenship and immigration data, CIHI uses the location of graduation as an indicator of trends in immigration. The assumption is made that a licensed practical nurse who studied outside of Canada immigrated, but the total number does include Canadian citizens who studied abroad.

Table 40 Licensed Practical Nursing Workforce, by Location of Graduation, Canada, 2003 to 2007

	Canada	International					
	(Co	unt)					
2003	47,016	1,055					
2004	46,726	1,188					
2005	47,386	1,216					
2006	48,932	1,232					
2007	67,802	1,322					
	(Annual Perce	(Annual Percentage Change)					
2003	_	_					
2004	-0.6%	12.6%					
2005	1.4%	2.4%					
2006	3.3%	1.3%					
2007	38.6%	7.3%					
	(Percentage	Distribution)					
2003	97.8%	2.2%					
2004	97.5%	2.5%					
2005	97.5%	2.5%					
2006	97.5%	2.5%					
2007	98.1%	1.9%					

Non-response for *location of graduation* element (% of all LPNs): 2003, n = 15,067 (23.9%); 2004, n = 15,529 (24.5%); 2005, n = 16,351 (25.2%); 2006, n = 17,136 (25.5%); 2007, n = 585 (0.8%).

From 2003 to 2006, for Quebec data, the location of graduation data were not submitted and defaulted to not stated.

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Of the LPNs employed in Canada who reported their location of graduation in 2007, 98.1% (67,802) graduated from a practical nursing program in Canada and 1.9% (1,322) graduated from an international practical nursing program.

The workforces of British Columbia and Ontario had the highest concentrations of internationally educated LPN graduates, with 3.3% and 3.5%, respectively. The four eastern provinces all had very low concentrations of internationally educated graduates.

For the 1,322 licensed practical nurses in Canada who graduated from an international practical nursing program, the seven most frequently identified countries of graduation are identified in Figure 41. Close to half of all international graduates attended nursing programs in the United Kingdom or the Philippines. Another 11.7% were graduates from programs in the United States.

⁻ Data are not applicable or do not exist.

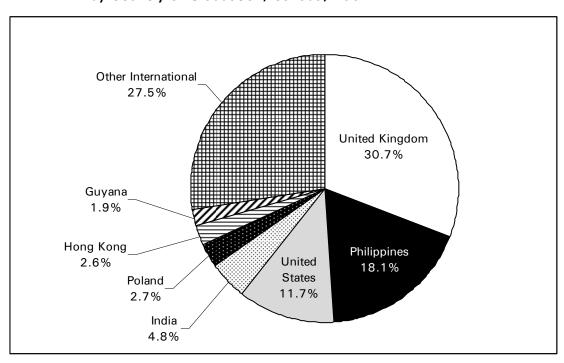


Figure 41 Internationally Educated Licensed Practical Nurses in the Workforce, by Country of Graduation, Canada, 2007

Includes only those LPNs who were educated outside of Canada (N = 1,322) in 2007.

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

 $See\ Chapter\ 5\ (Methodological\ Notes)\ for\ more\ information\ regarding\ collection\ and\ comparability\ of\ data.$

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Given the numbers, we may ask how long international graduates stay and whether they want to stay in the Canadian workforce. This is not a question directly answered by CIHI; however, by calculating exit rates for international graduates and Canadian graduates, we can find differences in rates in the various age groups.

Canadian and International Entry Rates Into the Workforce and Exit Rates

Table 41 shows the differences by age group and by location of graduation for entrants into the Canadian LPN workforce in 2003. This table defines entrants into the workforce as LPNs who registered and were employed within a specific jurisdiction in year x and not during years x - 1 to x - 5, excluding LPNs who had been in the workforce during the five-year period prior to their entry or exit.

It cannot be determined from these data how many exits are LPNs who left the profession, how many were moves within Canada and how many were international moves. Among those entrants in 2003 who left within four years of entering the workforce, the international graduates had a higher rate among the cohort under 35 and in the cohort 35 to 49, and Canadian graduates had a higher exit rate than international graduates for the oldest age cohort.

Table 41 Entrants to the Canadian Licensed Practical Nursing Workforce in 2003 and Corresponding Exit Rates From 2003 to 2006, by Age Group, Canadian and International Graduates

		Canadian		International			
	< 35	35-49	50+	<35	35-49	50+	
Number of New Entrants in 2003	2,347	2,922	1,707	23	83	89	
Total Exits From 2003 to 2006	629	696	599	13	23	28	
New 2003 Entrants Remaining in the Workforce	1,718	2,226	1,108	10	60	61	
Percentage of New Entrants Exiting the Workforce	26.8%	23.8%	35.1%	56.5%	27.7%	31.5%	

Note

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Urban/Rural Distribution of the Workforce

Geographical differences in Canada create numerous challenges to health care providers and planners. The urban/rural distribution of the population is a challenge not only in the northern territories but also in each of the provinces.

To determine if LPNs were practising in a rural or an urban setting, a postal code analysis was performed. In most cases, the postal code used was that of the workplace; however, where the postal code of workplace was not submitted to CIHI, the postal code of residence was used. Figures 42 and 43 illustrate the urban/rural/remote distribution of the LPN workforce in Canada in 2007. In 2007, 80.7% of the LPN workforce worked in urban areas of Canada, ranging from highs of 100% in the Yukon and 89.1% in British Columbia to lows of 38.6% in the Northwest Territories/Nunavut and 54.4% in Newfoundland and Labrador.

vii. See Chapter 5 (Methodological Notes) for a description of the postal code analysis.

Urban 80.7%

Other 19.3%

Remote 10.2%

Territories 0.1%

Figure 42 Licensed Practical Nursing Workforce, by Urban/Rural/Remote Designation, Canada, 2007

Totals may not sum to 100% due to rounding.

Urban areas are defined as communities with populations greater than 10,000 persons.

Rural areas are defined as communities in relatively close proximity to urban areas.

Remote areas are defined as those communities with relatively little social and economic interaction with urban areas.

Territories are defined as areas outside of Whitehorse and Yellowknife in the northern territories.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

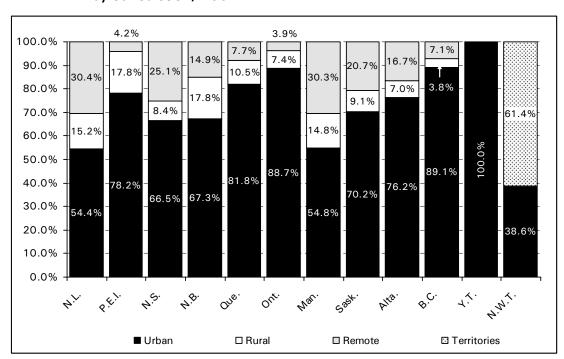


Figure 43 Licensed Practical Nursing Workforce, by Urban/Rural/Remote Designation, by Jurisdiction, 2007

Totals may not sum to 100% due to rounding.

Urban areas are defined as communities with populations greater than 10,000 persons.

Rural areas are defined as communities in relatively close proximity to urban areas.

Remote areas are defined as those communities with relatively little social and economic interaction with urban areas.

Territories are defined as areas outside of Whitehorse and Yellowknife in the northern territories.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

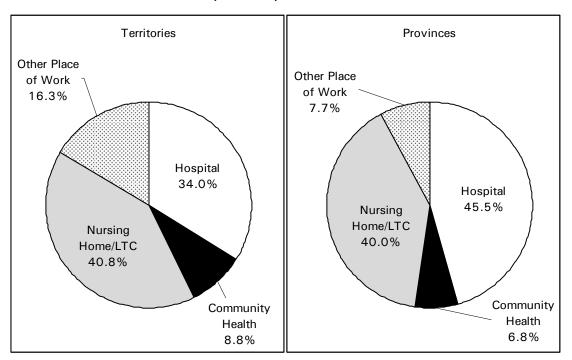
Licensed Practical Nurses in the Territories: Characteristics of the Northern Workforce

The nature and delivery of nursing services in the northern territories differ from those in the Canadian provinces. It is not uncommon for licensed practical nurses to travel north on short-term work contracts and to return to their home province for the remainder of the year. Therefore, in addition to the LPNs who are registered and working only in the northern territories, those LPNs who are registered in a territory and another jurisdiction are also included in the northern LPN workforce.

Some of the employment patterns described in this section also exist in northern or rural areas of each Canadian province. The health region analysis in Chapter 4 of this report provides some insight on the characteristics and services in each health region.

In 2007, the majority of LPNs worked in hospitals and nursing homes or long-term care facilities. Figure 44 shows that 40.8% of LPNs employed in the territories worked in nursing homes and long-term care facilities and 34.0% worked in hospitals. Of those LPNs working in the provinces, 45.4% worked in hospitals and 40.0% worked in nursing homes or long-term care facilities. There are seven hospitals in the northern territories, in contrast to close to 700 hospitals across the provinces.

Figure 44 Licensed Practical Nursing Workforce, by Place of Work, by Provincial or Territorial Level, Canada, 2007



Notes

Non-response for *place of work* element (% of LPN workforce): n = 986 (1.4%).

Hospital includes data from hospital (general, maternal, pediatric, psychiatric), mental health centre and rehabilitation/convalescent centre. Community health includes data from community health centre, home care agency, nursing station (outpost or clinic), public health department/unit.

Nursing home includes data from nursing home/long-term care facility.

Other includes data from business/industry/occupational health office, private nursing agency/private duty, self-employed, physician's office/family practice unit, educational institution, association/government and other.

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

LPNs employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication. Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Among LPNs employed in the territories, the most frequently identified areas of responsibility were geriatric/long-term care (49.6%), medical/surgical (11%), ambulatory care (11%) and several clinical areas (11%). Licensed practical nurses employed in the provinces most frequently identified geriatric/long-term care (45.8%), medical/surgical (18.7%) and other patient care (8.2%) as their area of responsibility. Almost all of the LPNs in both the territories (96.6%) and the provinces (92.4%) identified their position as staff nurse/community health nurse.

viii. Source: Canadian MIS Database, Canadian Institute for Health Information.

Methodological and Historical Changes to Licensed Practical Nursing Data, 2003 to 2007

Methodological and historical changes to the data make it difficult to compare data across time. CIHI and the regulatory authorities are continually striving to improve data quality; therefore, the following information must be taken into consideration when making historical comparisons and consulting previous CIHI publications. In all cases, comparisons should be made with caution and in consideration of the historical and methodological changes made.

LPN data for the years 1993 to 2001 were published in the CIHI series *Health Personnel Trends in Canada*, and LPN data for the 2002 data year were published in the report *Workforce Trends of Licensed Practical Nurses*, 2002.

Historical Revisions and Data Limitations

For a complete list of the data elements related to LPNs, please access the *Licensed Practical Nurses System Data Dictionary and Processing Manual* on the CIHI website at www.cihi.ca.

Employment

All Jurisdictions—Employment Status

In 2003, a methodology to more accurately account for all LPNs in the workforce was implemented. LPNs reporting an employer in practical nursing but failing to state their position status (full-time, part-time or casual positions with that employer) were re-coded by CIHI from not stated to unknown.

Ontario—**Employment Status**

For the 2006 data year, according to the College of Nurses of Ontario (CNO), the changes in the variable employed in practical nursing—status unknown are a result of refinements in the renewal process. This has enabled the CNO to reduce the number of not stated responses to this category.

As of 2006:

- Position (primary): not collected for the Yukon and the Northwest Territories in 2003.
- Position (secondary): not collected for Newfoundland and Labrador, Ontario, the Yukon and the Northwest Territories.
- Position (tertiary): not collected for Newfoundland and Labrador, New Brunswick,
 Ontario, the Yukon and the Northwest Territories.
- Place of Work (secondary): not collected in Newfoundland and Labrador, Ontario and the Northwest Territories.
- Place of Work (tertiary): not collected for Newfoundland and Labrador, New Brunswick, the Yukon and the Northwest Territories.
- Area of Responsibility (secondary): not collected for Newfoundland and Labrador,
 Ontario and the Northwest Territories.

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ix. See Chapter 5 (Methodological Notes) for more information of the re-coding of the employment status element.

- Area of Responsibility (tertiary): not collected for Newfoundland and Labrador, New Brunswick, Ontario, the Yukon and the Northwest Territories.
- Postal Code of Secondary: not collected for Newfoundland and Labrador, Ontario and the Northwest Territories.
- Postal Code of Tertiary Worksite: not collected for Newfoundland and Labrador,
 Ontario, the Yukon and the Northwest Territories.

Quebec-Place of Work, Area of Responsibility, Position

Starting in the 2005 data year, any registrant who had missing information on the registration/renewal form for the data elements *place of work*, *area of responsibility and position* were contacted by the Ordre des infirmières et infirmiers auxiliaires du Québec (OIIAQ). This refinement to the registration and renewal process resulted in a reduction of not stated responses for these data elements.

Ontario-Place of Work, Area of Responsibility, Position

In 2004, the CNO implemented the CNO Practice and Employment Definition to aid members in providing information and to enhance the quality of data collected.

Yukon—Multiple Employment Status

This data element was not available in the data years 2002 and 2004.

Northwest Territories – Multiple Employment Status

This data element was not collected for the data years 2002 to 2007.

Yukon—Location of Employment

For the data years 2002 to 2007, this field was derived from the fields *postal code* of residence and place of employment.

Quebec-Place of Work

Data for the sub-element mental health centre were not collected for the data years 2002 to 2007 because this type of institution, as defined by CIHI, does not exist in the province of Quebec. Over the last three years, the Quebec Ministère de la santé et des services sociaux has merged most of the province's public-sector hospitals, long-term care facilities and community health centres into 95 health and social service centres (CSSSs). Since the merger, the OIIAQ has reclassified its definitions for the field *place of work*.

Ontario - Place of Work

According to the CNO, refinements in the renewal process in 2004 have enabled the CNO to reduce the number of not stated responses to this category.

Newfoundland and Labrador—Area of Responsibility

Before 2004, LPNs who worked in several clinical areas were mapped to other direct care. Starting in 2004, LPNs selecting float are mapped to several clinical areas to better reflect the College of Licensed Practical Nurses of Newfoundland and Labrador (CLPNNL) workforce. This may explain the increase in the number of LPNs who reported several clinical areas and a decrease in other direct care.

Ontario - Area of Responsibility

According to the CNO, refinements in the renewal process in 2004 have enabled the CNO to reduce the number of not stated responses to this category.

Northwest Territories - Area of Responsibility

For the data years 2006 and 2007, any records indicating more than one area of responsibility were coded under the sub-element several clinical areas.

New Brunswick - Position

For the data year 2006, the Association of New Brunswick Licensed Practical Nurses educated members on how to complete the position section of the annual renewal registration form. As a result, the number of registrants selecting the category other for the element *position* has decreased.

Demographics

Yukon—Location of Residence

For the data years 2002 to 2007, this field was derived from the field postal code of residence.

Education

British Columbia — Education in Other Nursing Discipline, Education in Other Than Nursing In 2006, the College of Licensed Practical Nurses of British Columbia (CLPNBC) provided educational material to registrants on how to complete the education sections of the annual renewal form. As a result, the number of registrants selecting none has decreased for these fields.

Nova Scotia—Initial Education in Practical Nursing

For the 2006 data year, the College of Licensed Practical Nurses of Nova Scotia (CLPNNS) included the options certificate and diploma as collected on the annual renewal registration form.

Saskatchewan-Initial Education in Practical Nursing

The Saskatchewan Association of Licensed Practical Nurses (SALPN) included the options certificate or diploma for education completed in the last 12 months on the registration form. For the 2003 data year, a low percentage of initial registrants indicated diploma on the registration form and a high percentage (32.6%) indicated not stated. The SALPN suspects that some members may have left the field blank instead of checking diploma. As such, the diploma category in this field is under-represented for that year.

Quebec-Location of Graduation

The OIIQ did not submit data for this field for data years 2003 to 2006; all records defaulted to not stated.

Newfoundland and Labrador, New Brunswick, Northwest Territories—Other Education in Nursing—Non-Practical Nursing

This data element was not collected for the data years 2002 to 2007.

New Brunswick, Northwest Territories—Education in Other Than Nursing

This data element was not collected for the data years 2002 to 2007.

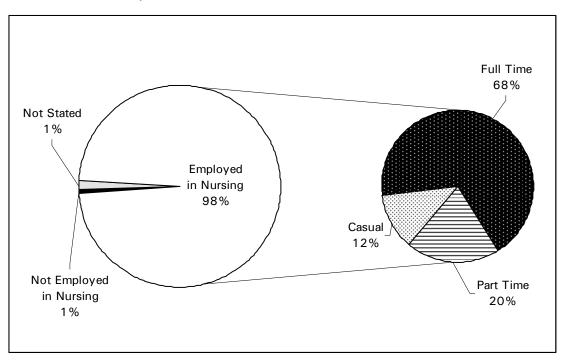
Chapter 3—Regulated Nurses in Canada: Trends of Registered Psychiatric Nurses

Supply Trends: How Many Registered Psychiatric Nurses?

The regulated nursing workforce is of critical importance to the health of Canadians, and thus to health human resources planners. This chapter presents data on registered psychiatric nurses (RPNs) working in Canada in 2007 and illustrates key trends over the last five years. RPNs are regulated and educated as a separate profession in four provinces: Manitoba, Saskatchewan, Alberta and British Columbia. As well, there are RPNs practising in the territories (defined as locations outside of Whitehorse and Yellowknife in the northern territories).

The RPN workforce is defined as RPNs employed in nursing within Canada. They represent 2% of the total regulated nursing workforce. The employment status indicator classifies RPNs as either working in nursing, working outside of nursing or not working. The position status indicator further classifies RPNs in the workforce as working in part-time, full-time or casual positions. As illustrated in Figure 45, the vast majority of RPNs who register in Canada are in the RPN workforce, with two-thirds employed in full-time positions (68%).

Figure 45 Registered Psychiatric Nurses, by Employment Status, by Position Status, Canada, 2007



Notes

Totals may not sum to 100% due to rounding.

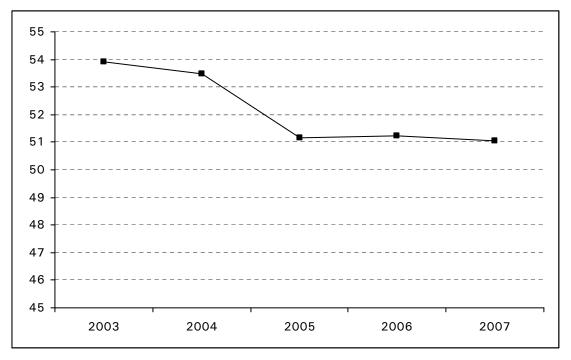
The RPN workforce of the four western provinces represents the total RPN workforce in Canada. See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

The number of RPNs per 100,000 population remained fairly constant, at approximately 51, between 2005 and 2007. This ratio is affected by the population of the four western provinces, which recently grew more rapidly than the Canadian population as a whole.

Figure 46 Registered Psychiatric Nursing Workforce per 100,000 Population, Canada, 2003 to 2007



Notes

The total population of the four western provinces (Manitoba, Saskatchewan, Alberta and British Columbia) was used in calculating the workforce per 100,000 population.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Sources

Regulated Nursing Database, Canadian Institute for Health Information; population estimates (July 1, 2007), Statistics Canada.

Employment Trends: Is the Workforce Changing?

Table 42 shows the supply of all registered psychiatric nurses over the period 2003 to 2007. The total number of RPNs in Canada was 5,230 in 2007, a decrease of 0.1% from 2006. Except in 2005, the number of RPNs employed in Canada increased each year between 2003 and 2007, though the increase was not uniform across the country. Additional information on RPNs by province is available in the data tables on the CIHI website.

Table 42 Registered Psychiatric Nurses, by Employment Status, by Position Status, Canada, 2003 to 2007

ted Sub-Total	
	-
K = F + G + H + I + J	L = E + K
96 103	5,211
	5,254
	5,027
	5,235
77 106	5,230
	_
% 29.1%	0.8%
% -52.6%	-4.3%
% 192.1%	4.1%
% -42.4%	-0.1%
% 2.0%	100.0%
	100.0%
	100.0%
	100.0%
% 2.0%	100.0%
.8 .1 .5 .8 .2	96 103 116 133 59 63 134 184 77 106

Notes

- Data are not applicable or do not exist.
- * Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.
- † Digit suppressed to ensure confidentiality.

Totals may not sum to 100% due to rounding.

In 2003 and 2004, the data submission method was modified, contributing to increases in the number of RPNs with position status unknown. Prior to 2005, for Saskatchewan data, RPNs not stating position status were defaulted to part time; in 2006, changes to the registration form permitted selection of part-time or casual position status.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

RPNs employed in nursing but reported as status unknown are those who reported employment data but who failed to indicate their position status as full time, part time or casual. Accordingly, they are included in the workforce but are excluded from some analyses in the report, as indicated in table footnotes. The proportion of the RPN workforce reported as status unknown was 0.8% in 2007.

Table 43 Registered Psychiatric Nursing Workforce, by Province and Canada, 2003 to 2007

	Man.	Sask.	Alta.	B.C.	Canada			
			(Count)					
2003	955	939	1,128	2,086	5,108			
2004	963	935	1,123	2,100	5,121			
2005	952	933	1,125	1,954	4,964			
2006	956	900	1,144	2,051	5,051			
2007	952	880	1,158	2,134	5,124			
	(Annual Percentage Change)							
2003	_	_	_	_	_			
2004	0.8%	-0.4%	-0.4%	0.7%	0.3%			
2005	-1.1%	-0.2%	0.2%	-7.0%	-3.1%			
2006	0.4%	-3.5%	1.7%	5.0%	1.8%			
2007	-0.4%	-2.2%	1.2%	4.0%	1.4%			
		(Percent	age Distribution	on)				
2003	18.7%	18.4%	22.1%	40.8%	100.0%			
2004	18.8%	18.3%	21.9%	41.0%	100.0%			
2005	19.2%	18.8%	22.7%	39.4%	100.0%			
2006	18.9%	17.8%	22.6%	40.6%	100.0%			
2007	18.6%	17.2%	22.6%	41.6%	100.0%			

Notes

In 2003 and 2004, the data submission method was modified, contributing to increases in the number of RPNs with position status unknown.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Position Status

Table 44 shows that the majority of registered psychiatric nurses employed in psychiatric nursing are employed on a regular basis in full-time positions (3,448, or 67.8% in 2007).

Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

Table 44 Registered Psychiatric Nursing Workforce, by Position Status, by Province and Canada, 2003 to 2007

		Man.	Sask.	Alta.	B.C.	Canada
			(Coun	it)		
Employed Full Time	2003 2004 2005 2006	610 614 601 599	696 737 724 708	713 696 670 663	1,464 1,454 - 1,437	3,483 3,501 1,995 3,407
	2007	599	698	664	1,487	3,448
Employed Part Time	2003 2004 2005 2006 2007	30† 291 286 293 283	24† 194 146 127 120	342 344 365 366 377	369 - - 172 235	1,256 829 797 958 1,015
Employed Casual	2003 2004 2005 2006 2007	4† 44 48 53 68	* 62 46 49	73 76 77 108 114	211 - - 424 390	327 120 187 631 621
Employed Position Status Unknown	2003 2004 2005 2006 2007	14 17 11 2	- 4 1 19 13	- 7 13 7 3	42 646 1,954 18 22	42 671 1,985 55 40
		((Annual Percent	age Change)		
Employed Full Time	2003 2004 2005 2006 2007	0.7% -2.1% -0.3% 0.0%	5.9% -1.8% -2.2%	-2.4% -3.7% -1.0% 0.2%	-0.7% - - - 3.5%	0.5% -43.0% 70.8% 1.2%
Employed Part Time	2003 2004 2005 2006 2007	- † -1.7% 2.4% -3.4%	- † -24.7% -13.0% -5.5%	0.6% 6.1% 0.3% 3.0%	- - - 36.6%	-34.0% -3.9% 20.2% 5.9%
Employed Casual	2003 2004 2005 2006 2007	9.1% 10.4% 28.3%	- † - -25.8% 6.5%	4.1% 1.3% 40.3% 5.6%	 - - -8.0%	-63.3% 55.8% 237.4% -1.6%
			(Percentage Di	istribution)		
Employed Full Time	2003 2004 2005 2006 2007	63.9% 64.7% 64.3% 63.4% 63.1%	74.1% 79.2% 77.7% 80.4% 80.5%	63.2% 62.4% 60.3% 58.3% 57.5%	71.6% 100.0% - 70.7% 70.4%	68.8% 78.7% 67.0% 68.2% 67.8%
Employed Part Time	2003 2004 2005 2006 2007	† 30.7% 30.6% 31.0% 29.8%	† 20.8% 15.7% 14.4% 13.8%	30.3% 30.8% 32.8% 32.2% 32.6%	18.1% - - 8.5% 11.1%	24.8% 18.6% 26.8% 19.2% 20.0%
Employed Casual	2003 2004 2005 2006 2007	† 4.6% 5.1% 5.6% 7.2%	† 6.7% 5.2% 5.7%	6.5% 6.8% 6.9% 9.5% 9.9%	10.3% - - 20.9% 18.5%	6.5% 2.7% 6.3% 12.6% 12.2%

- Data are not applicable or do not exist.
- * Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.
- † Digit suppressed to ensure confidentiality.

Totals may not sum to 100% due to rounding.

Employed RPNs with position status unknown are excluded from the percentage distribution.

In 2004, British Columbia defaulted all RPNs with part-time and casual employment to position status employed in psychiatric nursing—status unknown.

In 2005, British Columbia defaulted all RPNs to position status employed in psychiatric nursing—status unknown.

Prior to 2005, for Saskatchewan data, RPNs not stating position status were defaulted to part time; in 2006, changes to the registration form permitted selection of part-time or casual position status.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

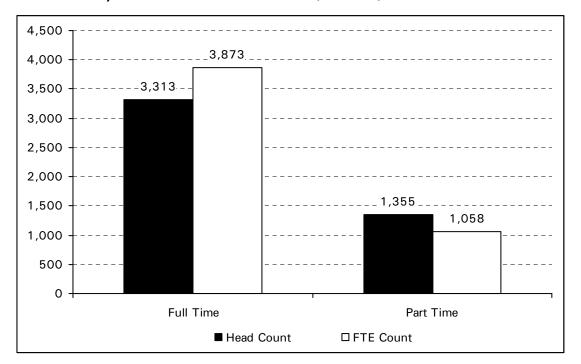
As Table 44 demonstrates, the percentage of the RPN workforce employed in full-time positions varied across the provinces in 2007, from 57.5% in Alberta and 63.1% in Manitoba to 70.4% in British Columbia and 80.5% in Saskatchewan. The average age of RPNs working full time was 47.4 years, part time 45.9 years and casual 48.4 years.

The proportion of male RPNs employed in full-time positions was larger in 2007 than that of female RPNs. In that year, 79.7% of male RPNs were employed full time, compared to 63.7% of female RPNs. Only 10.8% of male RPNs had part-time employment, compared to 22.4% of female RPNs. Casual employment rates followed a similar pattern, with 8.9% of male RPNs and 13.1% of female RPNs employed on a casual basis.

Full-Time Equivalents Versus Head Counts

The calculation of full-time equivalents (FTEs) provides another way to represent the supply of RPNs using the number of hours worked.* While the data required to calculate FTEs are not collected annually by CIHI, other sources can be used, such as the National Survey of the Work and Health of Nurses, 2005.

Figure 47 Head and FTE Counts of the Registered Psychiatric Nursing Workforce, by Full-Time or Part-Time Status, Canada, 2005



Source

National Survey of the Work and Health of Nurses, 2005, Statistics Canada (Canadian Institute for Health Information share file).

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x. See Chapter 5 (Methodological Notes) for further explanation on the FTE calculation.

An FTE has been estimated as the ratio of earned hours over "normal" earned hours, where earned hours are hours worked plus benefits. Using the Statistics Canada definition of a normal work week at 37.3 hours, part-time RPNs have an average FTE value of 0.78 and full-time RPNs have an average FTE value of 1.17. Of the part-time RPNs, almost one-fifth worked more than 40 hours per week; of the full-time RPNs, more than half worked more than 40 hours per week. Note that overtime hours (both paid and unpaid) are included in the total number of hours worked, and that RPNs may have reported hours worked in more than one nursing job.

Multiple Employment

It is not uncommon for RPNs to have more than one nursing job, often with multiple employers. In 2007, 22.8% of the RPN workforce reported having more than one employer in nursing, and the proportion has been consistently higher for those working on a part-time or casual basis. Although 9.8% of the 2007 workforce reported working in part-time or casual positions, the total number of hours worked by those in multiple positions may in fact equal or exceed the total of a full-time position.

Table 45 Registered Psychiatric Nurses Employed in Nursing With Multiple Employers, by Position Status With Primary Employer, Canada, 2003 to 2007

	Employed Full Time	Employed Part Time	Employed Casual	Employed Position Status Unknown	Total With Multiple Employers
			(Count)		
2003	476	308	99	7	890
2004	582	210	41	190	1,023
2005	276	200	50	481	1,007
2006	571	248	215	16	1,050
2007	667	297	203	3	1,170
		(,	Annual Percentage	e Change)	
2003	_	_	_	_	_
2004	22.3%	-31.8%	-58.6%	_	14.9%
2005	-52.6%	-4.8%	22.0%	_	-1.6%
2006	106.9%	24.0%	330.0%	_	4.3%
2007	16.8%	19.8%	-5.6%	-	11.4%
			(Percentage Distr	ibution)	
2003	53.9%	34.9%	11.2%	_	100.0%
2004	69.9%	25.2%	4.9%	_	100.0%
2005	52.5%	38.0%	9.5%	_	100.0%
2006	55.2%	24.0%	20.8%	_	100.0%
2007	57.2%	25.4%	17.4%	_	100.0%

Notes

Non-response for multiple employment element (% of RPN workforce): 2005, n = 27 (0.5%); 2006, n = 13 (0.3%); 2007, n = 44 (0.9%). Totals may not sum to 100% due to rounding.

Prior to 2005, for Saskatchewan data, RPNs not stating position status were defaulted to part time; in 2006, changes to the registration form permitted selection of part-time or casual position status.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

In 2004, British Columbia defaulted all RPNs with part-time and casual employment to position status employed in psychiatric nursing—status unknown.

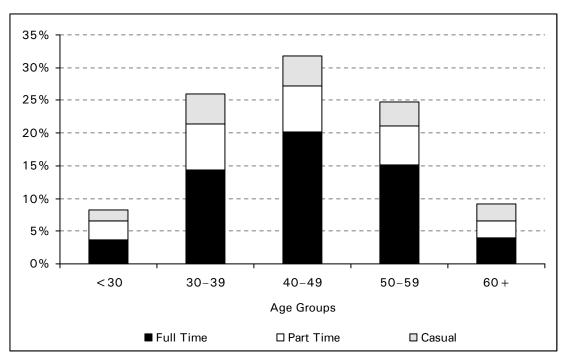
In 2005, British Columbia defaulted all RPNs to position status employed in psychiatric nursing—status unknown.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Figure 48 shows the distribution of RPNs working for multiple employers across age groups by position status. Within each age group, the distribution of part-time, full-time and casual workers is similar; however, the 40-to-49 age group comprises the largest group of RPNs with multiple employment.

Figure 48 Registered Psychiatric Nurses Employed in Nursing With Multiple Employers, by Position Status, by Age Group, Canada, 2007



Notes

Non-response for multiple employment element (% of RPN workforce): 2005, n=27 (0.5%); 2006, n=13 (0.3%); 2007, n=44 (0.9%). Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Location of Work

The hospital sector employs nearly half the RPN workforce in Canada. The greatest proportion of nurses working in this sector in 2007 was found in British Columbia, at 45.5% and Alberta, at 57.5%. Employment in the community health sector was largest in Manitoba; in Saskatchewan the nursing home/long-term care sector was the largest.

100.0% 8.0% 9.4% 11.7% 9.8% 12.5% 12.8% 13.9% 14.8% 16.1% 14.6% 90.0% 10.4% 11.4% 80.0% 26.3% 29.5% 17.6% 16.6% 21.9% 20.8% 70.0% 22.4% 19.4% 36.6% 38.6% 60.0% 23.6% 23.3% 23.5% 25.8% 50.0% 40.7% 10.5% 40.6% 40.0% 19.9% 30.0% 57.5% 57.5% 45.5% 42.1% 40.7% 20.0% 38.0% 25.5% 23.6% 22.0% 10.0% 0.0% 2003 2007 2003 2007 2003 2007 2003 2007 2003 2007 Man. Sask Alta. B.C. ■ Hospital □ Nursing Home/LTC Other Place of Work □ Community Health

Figure 49 Registered Psychiatric Nursing Workforce, by Place of Work, by Province and Canada, 2003 and 2007

Non-response for place of work element (% of RPN workforce): 2003, n=38 (0.7%); 2007, n=50 (1.0%).

Hospital includes data from hospital (general, maternal, pediatric, psychiatric).

Community health includes data from community mental health centre, home care agency, nursing station (outpost or clinic).

Nursing home/LTC includes data from nursing home/long-term care facility.

Other place of work includes data from business/industry/occupational health office, private nursing agency or psychiatric nursing agency/private duty, self-employed/private practice, physician's office/family practice unit, educational institution, association/government and other. Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

In 2007, the average age of RPNs working in the hospital sector was 45.6 years, compared to the average age of 47.3 years for RPNs employed in community health and 50.0 years for RPNs employed in the nursing home/long-term care sector.

Position Type

In 2007, 4,032 RPNs (79.3%) were employed as staff psychiatric nurses/community health nurses in Canada, an increase of 0.8% from 3,999 in 2006 (see Table 46).

Table 46 Registered Psychiatric Nursing Workforce, by Position Type, by Province and Canada, 2003 to 2007

		Man.	Sask.	Alta.	B.C.	Canada
				(Count)		
Staff Nurse	2003	718	709	905	1,542	3,874
	2004	731	734	899	1,593	3,957
	2005	748	737	908	1,504	3,897
	2006	743	717	938	1,601	3,999
	2007	736	668	944	1,684	4,032
Manager	2003	100	88	92	184	464
	2004	108	114	91	188	501
	2005	101	114	88	297	600
	2006	100	110	89	297	596
	2007	105	99	88	264	556
Other Positions	2003	105	116	111	328	660
	2004	116	76	121	301	614
	2005	99	82	118	117	416
	2006	113	73	111	132	429
	2007	109	98	120	169	496
			(Annual P	ercentage Cha	nge)	
Staff Nurse	2003	-	- -	-		
	2004	1.8%	3.5%	-0.7%	3.3%	2.1%
	2005	2.3%	0.4%	1.0%	-5.6%	-1.5%
	2006	-0.7%	-2.7%	3.3%	6.4%	2.6%
	2007	-0.9%	-6.8%	0.6%	5.2%	0.8%
Manager	2003	-	-	_	-	-
	2004	8.0%	29.5%	-1.1%	2.2%	8.0%
	2005	-6.5%	0.0%	-3.3%	58.0%	19.8%
	2006 2007	-1.0% 5.0%	-3.5% -10.0%	1.1% -1.1%	0.0% -11.1%	-0.7% -6.7%
Other Desitions		3.3 75	101070	,	, ,	0,0
Other Positions	2003 2004	10.5%	-34.5%	9.0%	-8.2%	-7.0%
	2004	-14.7%	7.9%	-2.5%	-61.1%	-32.2%
	2005	14.1%	-11.0%	-5.9%	12.8%	3.1%
	2007	-3.5%	34.2%	8.1%	28.0%	15.6%
			(Percent	age Distributio	nn)	
Staff Nurse	2003	77.8%	77.7%	81.7%	75.1%	77.5%
Otan Naisc	2004	76.5%	79.4%	80.9%	76.5%	78.0%
	2005	78.9%	79.0%	81.5%	78.4%	79.3%
	2006	77.7%	79.7%	82.4%	78.9%	79.6%
	2007	77.5%	77.2%	81.9%	79.5%	79.3%
Manager	2003	10.8%	9.6%	8.3%	9.0%	9.3%
Ü	2004	11.3%	12.3%	8.2%	9.0%	9.9%
	2005	10.7%	12.2%	7.9%	15.5%	12.2%
	2006	10.5%	12.2%	7.8%	14.6%	11.9%
	2007	11.1%	11.4%	7.6%	12.5%	10.9%
Other Positions	2003	11.4%	12.7%	10.0%	16.0%	13.2%
	2004	12.1%	8.2%	10.9%	14.5%	12.1%
	2005	10.4%	8.8%	10.6%	6.1%	8.5%
	2006	11.8%	8.1%	9.8%	6.5%	8.5%
	2007	11.5%	11.3%	10.4%	8.0%	9.8%

Non-response for *position* element (% of RPN workforce): 2003, n = 110 (2.2%); 2004, n = 49 (1.0%); 2005, n = 51 (1.0%); 2006, n = 27 (0.5%); 2007, n = 40 (0.8%).

 $Staff\ nurses\ include\ staff\ psychiatric\ nurse/community\ health\ psychiatric\ nurse.$

Managers include chief executive officer, director/assistant director and manager/assistant manager.

Other positions include instructor/professor/educator, consultant, clinical specialist and other.

In 2004, for British Columbia data, manager/assistant manager data were not submitted and were defaulted to other positions. Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

⁻ Data are not applicable or do not exist.

Area of Responsibility

The proportion of the registered psychiatric nursing workforce in direct care in 2007 was close to 90% in all four regulated provinces. Many health human resource planners are interested in these totals, as these numbers represent RPNs providing services directly to patients.

Areas of responsibility covered by RPNs that fall outside of direct care include administration, education and research. The proportion of RPNs employed in administration in 2007 was highest in Manitoba (11.0%) and Alberta (6.5%).

Overall, RPNs who provide direct care to patients are younger than RPNs in administration and education. In 2007, the average age was 47.0 years for RPNs in direct care, 50.5 years for RPNs working in administration, 49.7 years for RPNs working in education and 52.1 years for those working in research.

Table 47 Registered Psychiatric Nursing Workforce, by Area of Responsibility, Canada, 2007

	Counts	Percentage
Direct Care		_
Acute Services	1,186	23.7%
Addiction Services	146	2.9%
Children and Adolescent Services	273	5.4%
Crisis/Emergency Services	236	4.7%
Development Habilitation/Disabilities	209	4.2%
Forensic Services	379	7.6%
Geriatric/Long-Term Care	953	19.0%
Medical/Surgical	32	0.6%
Nursing in Several Clinical Areas	*	t
Occupational Health	10	0.2%
Oncology	*	t
Other Patient Care	625	12.5%
Pediatric	12	0.2%
Palliative Care	15	0.3%
Rehabilitation	485	9.7%
Total Direct Care	4,564	91.1%
Administration		
Psychiatric Nursing Education	22	0.4%
Psychiatric Nursing Service	191	3.8%
Other Administration	100	2.0%
Total Administration	313	6.2%
Education		
Other Education	23	0.5%
Teaching – Employees	30	0.6%
Teaching-Students	54	1.1%
Teaching—Patients/Clients	14	0.3%
Total Education	121	2.4%
Research		
Psychiatric Nursing Reseach Only	*	†
Other Research	1†	†
Total Research	12	0.3%
Total	5,010	100.0%

Notes

Regulated Nursing Database, Canadian Institute for Health Information.

Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.

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Non-response for area of responsibility element (% of all RPNs): n = 114 (2.2%).

Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

In 2007, the greatest proportion of RPNs worked in acute services and geriatric/long-term care. The area of responsibility with the most RPNs, acute services, also attracted the most recent graduates. In 2007, RPNs in their first five years of nursing accounted for 31.2% of all RPNs working in acute services. RPNs who graduated more than 30 years ago represented 20.5% of acute service in 2007. The areas of responsibility most frequently identified by male RPNs in 2007 were acute services (22.5%), forensic services (13.5%) and rehabilitation (13.0%).

Demographic Trends: Sex and Age Composition of the Registered Psychiatric Nursing Workforce

Just over three-quarters of RPNs (77.5%) in the Canadian workforce were female in 2007. This proportion has not changed significantly over five years (see Table 48). Notably, there is a significantly higher proportion of males working in psychiatric nursing (22.5%) than in the other regulated nursing professions (RN and LPN).

Additional information on RPN demographic characteristics and trends by province is available in the data tables on the CIHI website.

Table 48 Registered Psychiatric Nursing Workforce, by Sex, by Province and Canada, 2003 to 2007

		Man.	Sask.	Alta.	B.C.	Canada
Female	2003 2004 2005 2006 2007	725 729 723 733 736	795 792 792 764 747	(Count) 834 833 831 850 859	1,610 1,605 1,498 1,570 1,630	3,964 3,959 3,844 3,917 3,972
Male	2003 2004 2005 2006 2007	230 234 229 223 216	144 143 141 136 133	294 290 294 294 299	476 495 456 481 504	1,144 1,162 1,120 1,134 1,152
	0000		(Annual Pe	ercentage C	Change)	
Female	2003 2004 2005 2006 2007	0.6% -0.8% 1.4% 0.4%	-0.4% 0.0% -3.5% -2.2%	-0.1% -0.2% 2.3% 1.1%	-0.3% -6.7% 4.8% 3.8%	-0.1% -2.9% 1.9% 1.4%
Male	2003 2004 2005 2006 2007	1.7% -2.1% -2.6% -3.1%	-0.7% -1.4% -3.5% -2.2%	-1.4% 1.4% 0.0% 1.7%	4.0% -7.9% 5.5% 4.8%	1.6% -3.6% 1.3% 1.6%
			(Percent	age Distribi	ution)	
Female	2003 2004 2005 2006 2007	75.9% 75.7% 75.9% 76.7% 77.3%	84.7% 84.7% 84.9% 84.9% 84.9%	73.9% 74.2% 73.9% 74.3% 74.2%	77.2% 76.4% 76.7% 76.5% 76.4%	77.6% 77.3% 77.4% 77.5% 77.5%
Male	2003 2004 2005 2006 2007	24.1% 24.3% 24.1% 23.3% 22.7%	15.3% 15.3% 15.1% 15.1% 15.1%	26.1% 25.8% 26.1% 25.7% 25.8%	22.8% 23.6% 23.3% 23.5% 23.6%	22.4% 22.7% 22.6% 22.5% 22.5%

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

The average age of male RPNs was higher in 2007 (49.3 years) than of female RPNs (46.6 years) in 2007. In that year, males accounted for about one-quarter of the RPN workforce in Manitoba, Alberta and British Columbia.

Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Generation Gaps

For the first time in recent history, the workforce spans four generations.¹ This presents significant challenges and opportunities for health human resource planners as well as for managers at the institutional level. Different strategies may be required to entice and motivate the members of each generation, requiring an understanding of each generation's unique set of characteristics, values and perceptions of the ideal workplace.²

According to the literature,¹ members of the veteran generation (born between 1922 and 1945) value hard work and self-sacrifice and respect authority. The baby boomers (born between 1946 and 1964) tend to question authority and to value status and are sometimes workaholics. The generation Xers (born between 1965 and 1980) tend toward self-reliance and value career security over job security, are accustomed to direct and immediate communication and are more interested in achieving work–life balance. Finally, the youngest generation in the RPN workforce, generation Y (born after 1980), is made up of people who tend to be more goal-oriented, desire immediate feedback and favour meaningful work.

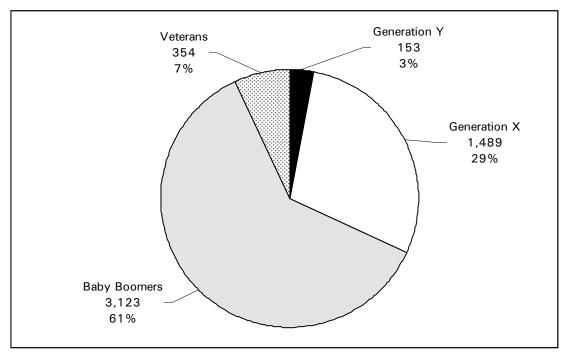


Figure 50 Registered Psychiatric Nursing Workforce, by Generation, Canada, 2007

Notes

Non-response for year of birth element (% of RPN workforce): n = 5 (0.1%).

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Figure 50 clearly shows that the highest proportion of the registered psychiatric nursing workforce in 2007 came from the baby boomer generation (age 43 to 61). This generation includes RPNs as many as two decades away from retirement as well as some within a few years of retirement. It can reasonably be expected that most of the veterans and a proportion of the baby boomers will leave the workforce in the next several years.

It is particularly important to track the older age groups in order to predict exit trends. In 2007, British Columbia had the highest proportion of nurses in the age group 55 to 59; the highest proportion were between 50 and 54 in Alberta and Manitoba. In the four western provinces overall, the age groups defined as baby boomers comprised the largest proportion of RPNs.

Table 49 Registered Psychiatric Nursing Workforce, by Age Group, by Province and Canada, 2007

	Man.	Sask.	Alta.	B.C.	Canada	
20-24	1.5%	*	2.7%	1.2%	1.4%	Compandian V
25-29	6.2%	*	5.4%	5.6%	4.8%	Generation Y
30-34	5.1%	†	5.5%	9.6%	7.2%	Generation X
35-39	8.2%	†	9.0%	10.3%	10.4%	Generation X
40-44	14.0%	17.7%	15.7%	13.1%	14.6%	
45-49	20.7%	19.9%	16.2%	15.0%	17.2%	Baby
50-54	23.4%	15.9%	17.1%	14.6%	17.0%	Boomers
55-59	13.6%	14.4%	14.9%	16.4%	15.2%	
60-64	4.9%	7.7%	10.8%	11.4%	9.4%	Vatarana
65 +	2.4%	3.1%	2.7%	2.8%	2.7%	Veterans

Notes

Non-response for year of birth element (% of all RPNs): n = 5 (0.1%).

Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

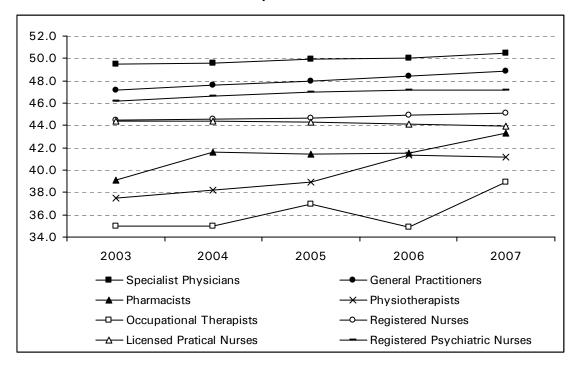
^{*} Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.

[†] Digit suppressed to ensure confidentiality.

Average Age of the Workforce

Average age may be used in addition to age groupings to describe trends and to make comparisons between the RPN workforce and other professions. As Figure 51 shows, the average age of selected health occupations increased over the period from 2003 to 2007. In addition to the aging of each worker, several variables affect the rate at which the average age of the workforce changes. They include the rates of entry into and exit from the workforce and the ages of the workers entering and exiting the workforce.

Figure 51 Average Age of Registered Psychiatric Nursing Workforce Compared to Selected Health Occupations, Canada, 2003 to 2007



Notes

Occupational therapists data do not include Quebec and data for 43 registrants in Manitoba, where age was not provided. Physiotherapists data do not include Nova Scotia, the Northwest Territories and Nunavut.

Pharmacist data for New Brunswick, Quebec, Manitoba and Nunavut are not available. Findings do not include the Yukon, as age was not collected or submitted.

In 2007, the College of Registered Nurses of Manitoba submitted aggregate tables for sex and average age.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Sources

Regulated Nursing Database, Scott's Medical Database, Occupational Therapist Database, Physiotherapist Database, Pharmacist Database, Canadian Institute for Health Information; Labour Force Survey, Statistics Canada.

Table 50 shows the range of average ages across the four provinces from 2003 to 2007. In most cases, the change from the previous year is relatively small; over five years the average age increased by one year for all Canadians RPNs. The largest increase in the average age was in Saskatchewan, 2.7 years. There was a rise of 1.2 years in Alberta and 0.9 years in Manitoba. The average age remained fairly constant in British Columbia.

Table 50 Average Age of the Registered Psychiatric Nursing Workforce, by Province and Canada, 2003 to 2007

	Man.	Sask.	Alta.	B.C.	Canada
		Ave	erage Age		
2003	46.0	44.9	46.0	47.0	46.2
2004	46.3	45.8	46.5	47.2	46.6
2005	46.5	46.5	47.0	47.6	47.0
2006	46.9	47.0	47.1	47.5	47.2
2007	46.9	47.6	47.2	47.2	47.2
	Ann	ual Increase/D	ecrease in Av	erage Age	
2003	_	_	_	_	_
2004	0.3	0.9	0.5	0.2	0.4
2005	0.2	0.7	0.4	0.3	0.4
2006	0.4	0.5	0.1	0.0	0.2
2007	0.0	0.6	0.2	-0.3	0.0

Notes

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

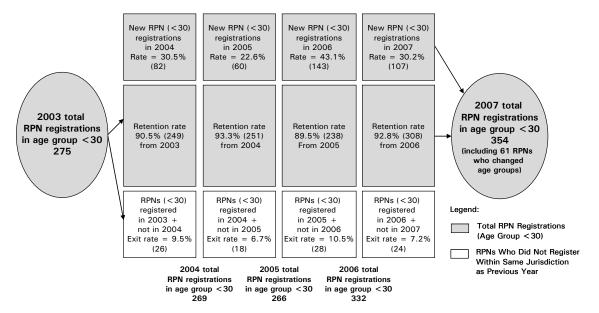
Exiting and Entering the Workforce

Figure 52 shows three rates that influence the number of RPNs under the age of 30 available to work each year. The rate of new registrations includes those RPNs who registered in a specific province in year x and who were not registered in that same province in the previous year (year x - 1). The retention rate includes those RPNs who registered in the same province in both year x and in year x - 1. The exit rate represents those RPNs who were registered in year x - 1 in a specific province, but who did not register in the same province in year x.

Note that the totals presented in Figure 52 and in Table 51 represent all RPNs who registered with a specific province, not only the workforce. A new registrant may be a new graduate, an immigrant, an interprovincial mover or an RPN re-registering following an absence of one year or more. An exit may be an RPN who has left the profession (either temporarily or permanently) or retired, or an RPN who is registered in another province or country in year x and may still be practising psychiatric nursing in another province, territory or country.

Data are not applicable or do not exist.

Figure 52 Registered Psychiatric Nurses Age Younger Than 30: Rate of New Registrations, Retention Rates and Exit Rates, Canada, 2003 to 2007



New registrations + retention rate may not add to total registrations as some RPNs changed age groups from one year to the next. Non-response for *year of birth* element (% of RPN workforce): 2003, n = 78 (1.5%); 2004, n = 30 (0.6%); 2005, n = 25 (0.5%); 2006, n = 6 (0.1%); 2007, n = 5 (0.1%).

Rates will not sum to 100%.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada. See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Table 51 shows new registration rates and exit rates by province and by age group. In 2007, the Canadian rate of new RPN registrations was 5.9%, meaning that 5.9% of all RPN registrations in 2007 were new to their province of registration that year. Of these 5.9% in 2007, 30.2% were in the under-30 age group.

Higher exit rates are seen in the oldest age groups. Given the low registration rates for the group of RPNs over the age of 60, it can be concluded that a significant portion of the 13.4% of RPNs over the age of 60 who did not re-register in 2007 (2006 exits) retired from psychiatric nursing. The RPNs under the age of 30 who did not re-register (7.2%) may have moved to another jurisdiction within or outside of Canada to continue practising psychiatric nursing, pursued further education, taken a leave of absence or left the profession. Note that many RPNs who temporarily leave the profession maintain their registration during their period of absence and are thus not counted as exits.

The RPNs in the 40-to-49 age group demonstrated the lowest exit rates between 2003 and 2007, indicating a low level of exits or mobility. It appears that most of the RPNs in this age group tend to stay in the workforce, in the same province, until at least age 50, above which the exit rate increases slightly.

Table 51 Registered Psychiatric Nurses: Rate of New Registrations and Exit Rates, by Age Group, by Province and Canada, 2003 to 2007

	Age Groups		Man.	Sask.	Alta.	B.C.	Canada
New Registration Rates	<30	2004 2005 2006 2007	41.7% 29.1% 34.9% 33.3%	20.7% 19.0% 18.2% 63.6%	26.0% 25.6% 44.3% 23.9%	31.3% 17.3% 47.6% 31.1%	30.5% 22.6% 43.1% 30.2%
	30–39	2004 2005 2006 2007	7.5% 10.9% 13.2% 11.6%	7.7% 4.9% 4.6% 7.7%	7.6% 5.6% 14.4% 5.7%	13.0% 5.0% 21.2% 11.7%	9.8% 6.0% 15.3% 9.7%
	40-49	2004 2005 2006 2007	2.9% 2.6% 2.2% 1.8%	5.7% 3.1% 2.3% 3.6%	3.1% 4.2% 3.2% 4.0%	6.2% 2.8% 12.5% 5.1%	4.6% 3.1% 6.0% 3.9%
	50-59	2004 2005 2006 2007	1.3% 0.9% 2.4% 0.6%	2.4% 0.7% 1.1% 1.1%	1.3% 1.8% 1.3% 1.9%	2.7% 1.4% 9.3% 3.4%	2.1% 1.3% 4.9% 2.1%
	60 +	2004 2005 2006 2007	0.0% 0.0% 0.0% 1.4%	0.0% 0.0% 2.3% 1.1%	1.1% 0.9% 1.6% 1.3%	3.6% 1.8% 8.7% 2.3%	2.0% 1.1% 5.0% 1.7%
Exit Rates	<30	2003 2004 2005 2006	8.1% 6.3% 14.5% 9.5%	13.2% 6.9% 9.5% 0.0%	10.8% 9.1% 11.6% 6.1%	7.9% 5.2% 7.7% 7.7%	9.5% 6.7% 10.5% 7.2%
	30-39	2003 2004 2005 2006	8.8% 5.5% 8.0% 4.7%	4.4% 4.9% 7.6% 5.6%	5.4% 9.7% 5.6% 4.3%	3.9% 11.6% 4.5% 8.6%	5.1% 8.8% 6.0% 6.6%
	40–49	2003 2004 2005 2006	2.1% 1.9% 1.3% 3.5%	3.6% 2.4% 2.8% 4.1%	4.0% 3.6% 4.2% 3.2%	2.4% 9.7% 2.2% 2.4%	2.9% 5.1% 2.6% 3.1%
	50-59	2003 2004 2005 2006	8.4% 8.4% 4.7% 6.2%	1.3% 3.9% 6.2% 5.9%	5.3% 3.1% 3.9% 3.4%	4.3% 12.5% 4.9% 6.6%	4.9% 8.4% 4.8% 5.7%
	60 +	2003 2004 2005 2006	15.7% 14.8% 11.1% 16.2%	6.0% 13.8% 20.5% 12.8%	16.0% 14.9% 11.0% 8.6%	16.8% 18.9% 20.2% 15.2%	14.6% 16.7% 17.1% 13.4%

Notes

Rates will not sum to 100%.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology. See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

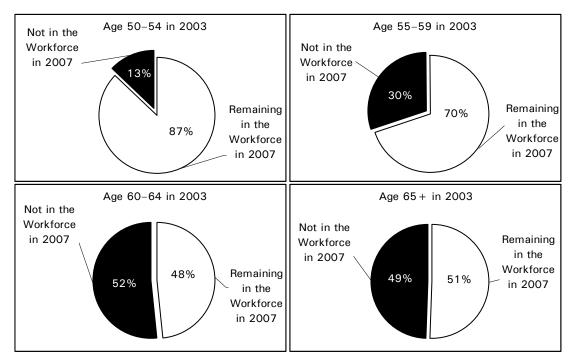
Source

Aging of Baby Boomers

Figure 53 illustrates the change to four age cohorts of RPNs over time. Each cohort was tracked in 2003 and in 2007. Of those who were between 50 and 54 in 2003, 13% had left the workforce by 2007; of those age 65 + in 2003, 49% had left the workforce by 2007. While leaving the workforce in a specific province includes interprovincial moves, it can be reasonably assumed that in these age groups a significant proportion of the exits represents retirements.

Although the exit rate for the oldest cohort was the highest, the largest changes to the workforce would have come from the departure of the cohort age 55 to 59 in 2003 (which included close to 230 RPNs).

Figure 53 Registered Psychiatric Nurses Aged 50 + Exiting or Remaining in the Workforce, Canada, 2003 and 2007



Notes

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Totals may not sum to 100% due to rounding.

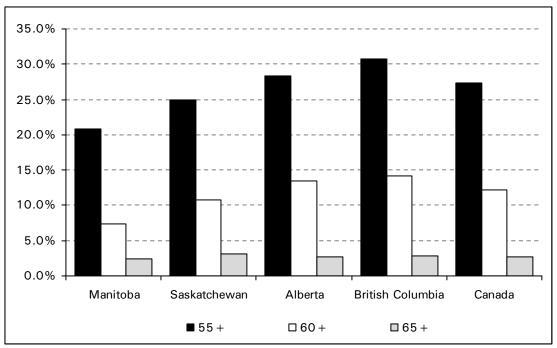
See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Figure 54 highlights the proportion of the RPN workforce in each province/territory at or above three typical ages of retirement in 2007: 55, 60 and 65. Note that this illustration is cumulative. An RPN at age 65 is counted in all three categories, and a RPN at age 60 is counted in two categories.

Figure 54 Registered Psychiatric Nursing Workforce, by Age Groups 55+, 60+ and 65+, by Province and Canada, 2007



Notes

Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Years Since Graduation

As employment patterns of RPNs change as their careers evolve, assumptions and analyses based on age indicators alone may be incomplete. It may be useful as well to consider the number of years since graduation from an RPN program.

Figure 55 illustrates the distribution of RPNs by number of years since graduation. Note that this indicates the maximum number of years an RPN could have been in the workforce, and does not necessarily reflect the actual number of years worked, because time spent out of the workforce (such as in continuing education or family leave) is not accounted for.

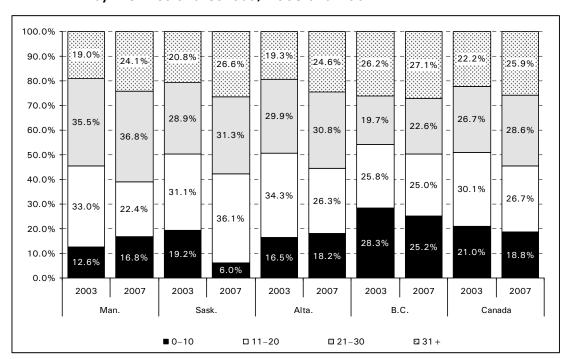


Figure 55 Registered Psychiatric Nursing Workforce, by Years Since RPN Graduation, by Province and Canada, 2003 and 2007

Non-response for year of graduation element (% of RPN workforce): 2003, n = 107 (9.6%); 2007, n = 0. Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

The trend from 2003 to 2007 shows the proportion of RPNs 31 + years since graduation increased in every province. In Canada overall, the cohort 31 + years since graduation increased from 22.2% to 25.9% between 2003 and 2007. The proportion of RPNs in the group 0 to 10 years since graduation decreased to 18.8% of the workforce in 2007 from 21.0% in 2003.

Education Trends: Lifelong Learning

Entry-to-Practice Education

Registered psychiatric nurses are graduates of recognized and approved postsecondary education programs. They must meet standards for psychiatric nursing, a code of ethics and a set of expected competencies. Although psychiatric nursing programs are now available at both the diploma and baccalaureate levels in the western provinces, most RPNs in the current workforce entered practice as graduates of a two- or three-year diploma program.

Higher Education for Registered Psychiatric Nurses

In the 2007 RPN workforce, a total of 368 RPNs (7.2%) had obtained a baccalaureate as their highest education in nursing (see Table 52), compared to 4,747 (92.6%) who had earned a diploma. As Manitoba was the first province to offer a baccalaureate program in 1998, the percentage of RPNs in the province with a baccalaureate as the highest educational level was 17.3%. British Columbia and Alberta were the only provinces with RPNs who had obtained master's degrees, and they represented less than 1% of the workforce in each province.

Table 52 Registered Psychiatric Nursing Workforce, by Highest Level of Education in Nursing, Canada, 2003 to 2007

	Diploma	Baccalaureate	Master's/Doctorate
		(Count)	
0000	4 700		
2003	4,782	273	53
2004	4,876	227	18
2005	4,707	241	16
2006	4,760	276	15
2007	4,747	368	9
		(Annual Percentage C	change)
2003	_	_	_
2004	2.0%	-16.8%	-66.0%
2005	-3.5%	6.2%	-11.1%
2006	1.1%	14.5%	-6.3%
2007	-0.3%	33.3%	-40.0%
		(Percentage Distribu	ution)
2003	93.6%	5.3%	1.0%
2004	95.2%	4.4%	0.4%
2005	94.8%	4.9%	0.3%
2006	94.2%	5.5%	0.3%
2007	92.6%	7.2%	0.2%

Notes

Source

Data are not applicable or do not exist.

Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Average Age at Graduation

The age at which a student graduates from a psychiatric nursing program and is eligible to enter the RPN workforce is an important indicator of the number of years an average RPN will contribute to the workforce. As Table 53 illustrates, as psychiatric nurses enter the workforce later, their number of years of service will be reduced unless they stay later at the end of their careers.

Table 53 Registered Psychiatric Nursing Graduates and Average Age at Graduation, by Range of Graduation Years, Canada, 1980 to 2007

Graduation Year	Number of Graduates	Average Age at Graduation			
1980-1984	737	24.2			
1985-1989	723	25.4			
1990-1994	734	28.4			
1995-1999	417	28.9			
2000-2004	452	30.0			
2005 +	313	29.0			

Notes

The total RPN workforce of the four western provinces represents the total RPN workforce in Canada. See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

The trend of increasing age at graduation slowed since the changes seen prior to the early 1990s, as seen in Table 53. However, in 2007, 39.3% of the workforce who had graduated in the previous three years were over the age of 30 when they graduated.

Mobility Trends: A Mobile Workforce

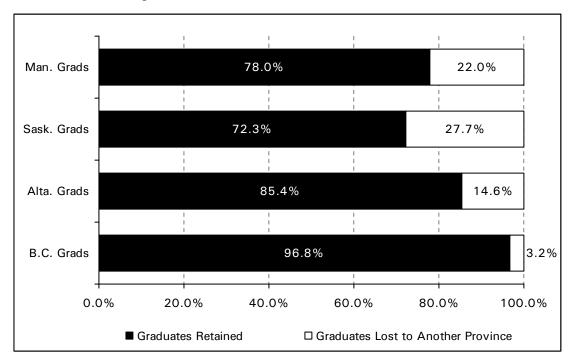
Regulated nurses are in demand in Canada and around the world. As a result, graduates from regulated nursing programs often have numerous options as to where they will practise. Canadian graduates may choose to remain in their current province or territory, to migrate to another Canadian province or territory or to emigrate to another country. International graduates may choose to immigrate to Canada, either through their own initiative or through a provincial nursing recruitment program.

As CIHI does not collect citizenship or immigration data, the mobility trends in this chapter related to interprovincial and international mobility are based on indicators developed by CIHI using data on employment, location of residence and location of graduation. Additional information on RPN mobility trends is available in the data tables on the CIHI website.

Migration Within Canada

Each provincial workforce combines registered psychiatric nursing graduates from within the province, graduates from other Canadian provinces and graduates from outside the country. Overall, more than 8 out of 10 graduates (84.1%) of Canadian registered psychiatric nursing programs who were working in Canada in 2007 either did not move after graduation or eventually returned to their province of graduation.

Figure 56 Registered Psychiatric Nursing Workforce by Province of Graduation and Registration, Canada, 2007



Notes

Includes only graduates of Canadian nursing programs employed in Canada in 2007 (N $\,=\,4,660$).

Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

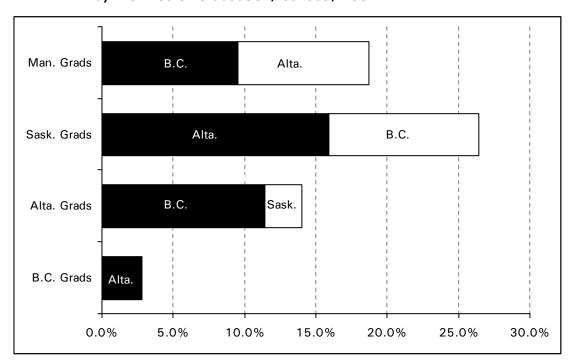


Figure 57 Top Two Destinations for Registered Psychiatric Nursing Graduates by Province of Graduation, Canada, 2007

Includes only graduates of Canadian nursing programs employed in Canada in 2007 (N = 4,660).

Second destination for B.C. grads was suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4. Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

The provinces of British Columbia and Alberta figure most prominently as destinations for RPN graduates. In contrast, only 2.5% of the RPN workforce in Manitoba and 7.4% of that in Saskatchewan graduated from Canadian nursing programs outside their province of registration, the lowest rates in the country (see Figure 57). The data do not account for mobility and migration in the intervening years.

International Registered Psychiatric Nursing Graduates

In the absence of citizenship and immigration data, CIHI uses the location of graduation as an indicator of trends in immigration. The assumption is made that a registered psychiatric nurse who studied outside of Canada immigrated, but the total number does include those Canadian citizens who studied abroad.

Table 54 Registered Psychiatric Nursing Workforce, by Location of Graduation, by Province and Canada, 2003 to 2007

		Man.	Sask.	Alta.	B.C.	Canada				
			(Count)							
Canada	2003 2004 2005 2006 2007	94† 950 942 945 942	91† 920 921 890 870	1,025 1,023 1,024 1,047 1,062	1,686 1,707 1,650 1,726 1,786	4,569 4,600 4,537 4,608 4,660				
International	2003 2004 2005 2006 2007	1† 13 10 11 10	* 15 12 10 10	103 100 100 97 96	253 238 220 209 235	373 366 342 327 351				
		(Anı	(Annual Percentage Change)							
Canada	2003 2004 2005 2006 2007	- t -0.8% 0.3% -0.3%	- 1 0.1% -3.4% -2.2%	-0.2% 0.1% 2.2% 1.4%	1.2% -3.3% 4.6% 3.5%	0.7% -1.4% 1.6% 1.1%				
International	2003 2004 2005 2006 2007	- -23.1% 10.0% -9.1%	- + -20.0% -16.7% 0.0%	-2.9% 0.0% -3.0% -1.0%	-5.9% -7.6% -5.0% 12.4%	-1.9% -6.6% -4.4% 7.3%				
		(Percentage Distribution)								
Canada	2003 2004 2005 2006 2007	† 98.7% 98.9% 98.8% 98.9%	† 98.4% 98.7% 98.9% 98.9%	90.9% 91.1% 91.1% 91.5% 91.7%	87.0% 87.8% 88.2% 89.2% 88.4%	92.5% 92.6% 93.0% 93.4% 93.0%				
International	2003 2004 2005 2006 2007	† 1.3% 1.1% 1.2% 1.1%	† 1.6% 1.3% 1.1%	9.1% 8.9% 8.9% 8.5% 8.3%	13.0% 12.2% 11.8% 10.8% 11.6%	7.5% 7.4% 7.0% 6.6% 7.0%				

Non-response for *location of graduation* element (% of all RPNs): 2003, n = 166 (3.2%); 2004, n = 155 (3.0%); 2005, n = 85 (1.7%), 2006, n = 116 (2.3%); 2007, n = 113 (2.2%).

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

^{*} Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.

Digit suppressed to ensure confidentiality.

Totals may not sum to 100% due to rounding.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada.

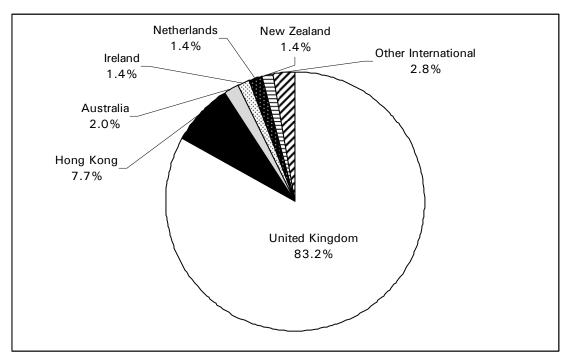
Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication.

Table 54 shows that the RPN workforces of British Columbia (11.6%) and Alberta (8.3%) had the highest concentration of internationally educated graduates in 2007. In contrast, 1.1% of the RPN workforces in Manitoba and Saskatchewan in that year had graduated from an international nursing school.

Of the RPNs employed in Canada who reported their location of graduation in 2007, 93.0% (4,660) graduated from a nursing program in Canada and 7.0% (351) graduated from an international psychiatric nursing program. Since 2003, the proportion of internationally educated graduates in the Canadian RPN workforce has remained between 6.6% and 7.5%.

Figure 58 Internationally Educated Registered Psychiatric Nurses in the Workforce, by Country of Graduation, Canada, 2007



Notes

Includes only those who were educated outside of Canada in the workforce in 2007 (N = 351).

Totals may not sum to 100% due to rounding.

The total RPN workforce of the four western provinces represents the total RPN workforce in Canada.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology. See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

For the 351 registered psychiatric nurses in Canada who graduated from an international psychiatric nursing program, the six most frequently identified countries of graduation are identified in Figure 58. More than 80% of graduates graduated from psychiatric nursing programs in the United Kingdom, while those educated in Hong Kong comprised the next largest group, at 7.7%.

Given the numbers, we may ask how long international graduates stay and whether they want to stay in the Canadian workforce. This is not a question directly answered by CIHI; however, by calculating exit rates for international graduates and comparing them to those of Canadian graduates, we can find differences in rates in the various age groups.

Canadian and International Entry Rates Into the Workforce and Exit Rates

Table 55 shows the differences by age group and by location of graduation for entrants into the Canadian RPN workforce in 2003. This table defines entrants into the workforce as RPNs who registered and were employed within a specific province in year x and not during years x - 1 to x - 5, excluding RPNs who had been in the workforce during the five-year period prior to their entry or exit.

It cannot be determined from these data how many exits are RPNs who left the profession, how many were moves within Canada and how many were international moves. Among those entrants in 2003 who left within four years of entering the workforce, the international graduates had a much lower rate among the age group under 35. However, the difference between Canadian and international graduates was most noticeable in the 35-to-49 age group, where the exit rate of international graduates was significantly higher.

Table 55 Entrants to the Canadian Registered Psychiatric Nursing Workforce in 2003 and Corresponding Exit Rates From 2003 to 2006, by Age Group, Canadian and International Graduates

	Canadian			International		
	<35	35-49	50+	< 35	35-49	50+
Number of New Entrants in 2003	372	761	752	3	47	215
Total Exits From 2003 to 2006	74	78	223	0	15	81
New 2003 Entrants Remaining in the Workforce	298	683	529	3	32	134
Percent of New Entrants Exiting the Workforce	19.9%	10.2%	29.7%	0.0%	31.9%	37.7%

Notes

Rates do not sum to 100%.

The RPN workforce of the four western provinces represents the total RPN workforce in Canada. See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

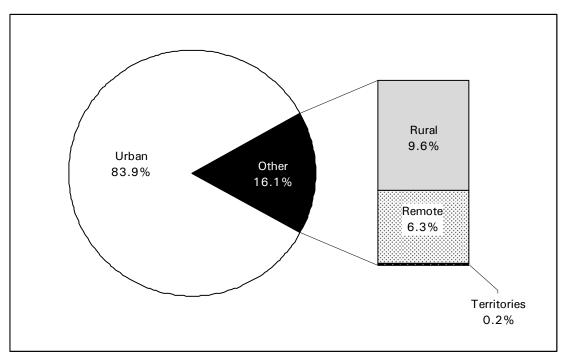
Regulated Nursing Database, Canadian Institute for Health Information.

Urban/Rural Distribution of the Workforce

Geographical differences in Canada create numerous challenges to health care providers and planners. The urban/rural distribution of the population is a challenge not only in the northern territories but also in each of the provinces.

To determine if RPNs were practising in a rural or an urban setting, a postal code analysis was performed. In most cases, the postal code used was of the workplace; however, where the postal code of workplace was not submitted to CIHI, the postal code of residence was used. Figures 59 and 60 illustrate the urban/rural/remote distribution of the RPN workforce in Canada in 2007. In 2007, 83.9% of the RPN workforce worked in urban areas of the four western provinces.

Figure 59 Registered Psychiatric Nursing Workforce, by Urban/Rural/Remote Designation, Canada, 2007



Notes

Totals may not sum to 100% due to rounding.

Urban areas are defined as communities with populations greater than 10,000 persons.

Rural areas are defined as communities in relatively close proximity to urban areas.

Remote areas are defined as those communities with relatively little social and economic interaction with urban areas.

Territories are defined as areas outside of Whitehorse and Yellowknife in the northern territories.

 $See\ Chapter\ 5\ (Methodological\ Notes)\ for\ more\ information\ regarding\ collection\ and\ comparability\ of\ data.$

Source

Regulated Nursing Database, Canadian Institute for Health Information.

xi. See Chapter 5 (Methodological Notes) for a description of the postal code analysis.

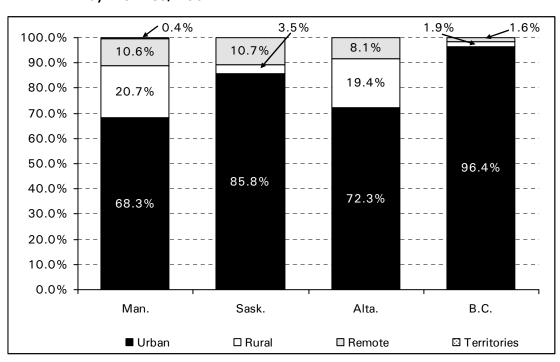


Figure 60 Registered Psychiatric Nursing Workforce, by Urban/Rural/Remote Designation, by Province, 2007

Totals may not sum to 100% due to rounding.

Urban areas are defined as communities with populations greater than 10,000 persons.

Rural areas are defined as communities in relatively close proximity to urban areas.

Remote areas are defined as those communities with relatively little social and economic interaction with urban areas.

Territories are defined as areas outside of Whitehorse and Yellowknife in the northern territories.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

RPNs employed in a province different from their province of registration are excluded to avoid duplication (except where one is a territory). See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Methodological and Historical Changes to Registered Psychiatric Nursing Data, 2003 to 2007

Methodological and historical changes to the data make it difficult to compare data across time. CIHI and the regulatory authorities are continually striving to improve data quality; therefore, the following information must be taken into consideration when making historical comparisons and consulting previous CIHI publications. In all cases, comparisons should be made with caution and in consideration of the historical and methodological changes made.

RPN data for the years 1993 to 2001 were published in the series *Health Personnel Trends in Canada*, and RPN data for the 2002 data year were published in the report *Workforce Trends of Registered Psychiatric Nurses*, 2002.

Historical Revisions and Data Limitations

For a complete list of the data elements related to RPNs, please access the *Registered Psychiatric Nurses* System Data Dictionary and Processing Manual on the CIHI website at www.cihi.ca.

Employment

All Provinces-Employment Status

In 2004, a methodology to more accurately account for the workforce was implemented.^{xii} RPNs reporting an employer in psychiatric nursing but failing to state their position status (full-time, part-time or casual positions with that employer) were re-coded by CIHI from not stated to unknown.

British Columbia - Employment Status

For the 2005 data year, the College of Registered Psychiatric Nurses of British Columbia (CRPNBC) defaulted this field, for all registrants, to employed in psychiatric nursing—status unknown. For the 2006 data year, the CRPNBC and CIHI worked together to improve the reporting of employment status information collected on the CRPNBC's registration form.

For the 2004 data year, the CRPNBC did not submit part-time or casual employment data to CIHI. Data for all RPNs without full-time employment were defaulted to employed in psychiatric nursing—status unknown.

Saskatchewan - Employment Status

Starting in the 2005 data year, the Registered Psychiatric Nurses Association of Saskatchewan (RPNAS) registration form separates part-time and casual employment into two options. In previous years, part-time and casual employment were grouped as one option, and all RPNs who selected this were defaulted to part time unless the RPN specifically indicated casual employment.

Manitoba-Place of Work, Area of Responsibility, Position

Starting in the 2005 data year, the College of Registered Psychiatric Nurses of Manitoba (CRPNM) began to collect and submit data for the following fields to CIHI:

- Place of Work (second and third employer)
- Area of Responsibility (second and third employer)
- Position (second and third employer)
- Postal Code of Employer (second and third employer)

British Columbia - Place of Work

For the 2004 data year, the CRPNBC did not submit community mental health-sector data to CIHI. Any data collected in this category were defaulted to other place of work.

xii. See Chapter 5 (Methodological Notes) for more information on the re-coding of the employment status element.

British Columbia - Position

For the 2004 data year, the CRPNBC did not submit senior manager or manager/assistant manager data to CIHI. Any data collected in these categories were defaulted to other positions.

Education

Saskatchewan—Initial Education in Psychiatric Nursing

The Registered Psychiatric Nurses Association of Saskatchewan (RPNAS) did not submit data for this field prior to the 2004 data year. For the 2003 data year, all RPNs in Saskatchewan were defaulted to diploma for their *initial education*.

Manitoba—Initial Education in Psychiatric Nursing, Other Education in Psychiatric Nursing In the 2005 data year, the CRPNM asked members to complete the entire education section of the registration form even if they had reported education information previously. This may have resulted in the capture of education data that were not previously reported or not previously entered in the database.

Chapter 4—Regulated Nursing Workforce by Health Region

Regulated Nursing Workforce by Health Region

This chapter presents information on the regulated nursing workforce by health regions and by distinct nursing profession: registered nurses, licensed practical nurses and registered psychiatric nurses. Provincial and territorial analysis by health region was integrated into this publication as a result of increasing demand for health information at a regional level. The health region boundaries presented in this publication are those defined in the Statistics Canada report *Health Regions: Boundaries and Correspondence With Census Geography (2007)*:

Health regions are legislated administrative areas defined by provincial ministries of health. These administrative areas represent geographic areas of responsibility for hospital boards or regional health authorities. Health regions, being provincial administrative areas, are subject to change.

The health region data presented in this publication include only regulated nurses who work in direct patient care; those employed in administration, education or research are excluded from the health region totals. There are 297,393 individuals in the regulated nursing direct care workforce, representing 89.3% of the total regulated nursing workforce.

Assigning the Regulated Nursing Workforce to Health Regions

Postal code data and Statistics Canada's Postal Code Conversion File (PCCF) were used to assign the regulated nursing workforce to health regions. The six-digit postal code of worksite was used first; where this postal code was missing or invalid (23.4%), the six-digit postal code of residence was used. This method accurately assigned 99.98% of the direct care regulated nursing workforce to a particular health region; the remaining 0.02% were pro-rated and re-distributed into the existing totals.

CIHI would like to acknowledge the cooperation of the Ordre des infirmiers et infirmières du Québec, which provided CIHI with the number of registered nurses working in direct care employed or living in each Quebec health region.

Health Region Peer Groups

In order to facilitate comparison between health regions, Statistics Canada developed a methodology that groups health regions with similar socio-economic and socio-demographic characteristics into peer groups. The health region peer groups defined by Statistics Canada are listed in Table 57.

Rates per 100,000 Population

Using 2006 calendar year population estimates from Statistics Canada, rates were calculated for licensed practical nurses, registered nurses, registered psychiatric nurses and the regulated nursing workforce (including all three regulated nursing professions) employed in direct care, per 100,000 population for each health region.

The rates were not adjusted to account for differences in population that may change health status, such as age or sex. While adjusted rates can be quite useful for certain types of analysis, this report presents the actual number of nurses providing direct care who work in each health region.

Table 56 Regulated Nursing Workforce by Health Region, Canada, 2007

	Reco		Register	ed Nurses		ensed al Nurses		istered tric Nurses	All Regula	ated Nurses
Peer Group	Health Region Name	Population Estimates	Direct Care Counts	Per 100,000 Population	Direct Care Counts	Per 100,000 Population	Direct Care Counts	Per 100,000 Population	Counts	Per 100,000 Population
Newfou	ndland and Labrador									
С	Eastern Regional Integrated Health Authority	295,676	3,229	1,091	1,375	465			4,600	1,556
I	Central Regional Integrated Health Authority	95,842	716	746	543	567			1,258	1,313
- 1	Western Regional Integrated Health Authority	80,022	736	918	457	571			1,192	1,490
Н	Labrador-Grenfell Regional Integrated Health Authority	38,137	321	842	155	406			476	1,248
	Outside of Jurisdiction		6		0				6	
	Newfoundland and Labrador (Direct Care Total)	509,677	5,008	983	2,530	496			7,538	1,479
Prince E	dward Island									
D	Kings County	21,293	53	249	39	183			92	432
Α	Queens County	69,166	878	1,269	454	656			1,332	1,926
С	Prince County	48,060	328	682	125	260			453	943
	Outside of Jurisdiction		15		0				15	
	Prince Edward Island (Direct Care)	138,519	1,274	920	618	446			1,892	1,366
Nova S	cotia									
С	Zone 1	122,699	737	600	474	386			1,210	986
С	Zone 2	82,590	530	641	277	335			806	976
С	Zone 3	106,544	553	518	222	208			774	726
С	Zone 4	93,477	735	785	227	243			961	1,028
I	Zone 5	127,444	1,174	920	612	480			1,785	1,401
Α	Zone 6	401,651	3,824	951	1,239	308			5,058	1,259
	Outside of Jurisdiction		12		0				12	
	Nova Scotia (Direct Care Total)	934,405	7,565	810	3,051	327			10,616	1,136
New Br	unswick									
С	Region 1	195,631	1,870	956	626	320			2,496	1,276
С	Region 2	174,289	1,676	962	628	360			2,304	1,322
С	Region 3	171,734	1,367	796	534	311			1,901	1,107
С	Region 4	51,134	518	1,013	169	331			687	1,344
- 1	Region 5	28,702	383	1,334	166	578			549	1,913
I	Region 6	80,731	714	884	358	443			1,072	1,328
I	Region 7	46,947	385	820	158	337			543	1,157
	Outside of Jurisdiction		0		1				1	
	New Brunswick (Direct Care Total)	749,168	6,913	923	2,640	352			9,553	1,275
Quebec										
С	Bas-Saint-Laurent	201,692	1,635	811	739	366			2,374	1,177
С	Saguenay-Lac-Saint-Jean	274,096	2,140	781	981	358			3,121	1,139
Α	Capitale Nationale	671,469	7,475	1,113	1,959	292			9,434	1,405
С	Mauricie et Centre-du-Québec	488,561	3,275	670	1,252	256			4,527	927
С	Estrie	302,162	2,421	801	719	238			3,140	1,039
G	Montréal	1,873,975	17,973	959	4,848	259			22,821	1,218
Α	Outaouais	347,215	1,677	483	476	137			2,153	620
С	Abitibi-Témiscamingue	144,835	1,121	774	297	205			1,418	979

Table 56 Regulated Nursing Workforce by Health Region, Canada, 2007 (cont'd)

			Register	ed Nurses		ensed al Nurses		istered tric Nurses	All Regula	nted Nurses
Peer Group	Health Region Name	Population Estimates	Direct Care Counts	Per 100,000 Population	Direct Care Counts	Per 100,000 Population	Direct Care Counts	Per 100,000 Population	Counts	Per 100,000 Population
Н	Côte-Nord	95,948	780	813	177	184			957	997
Н	Nord du Québec	17,188	149	867	26	151			175	1,018
ı	Gaspésie-Îles-de-la-Madeleine	95,872	826	862	400	417			1,226	1,279
Е	Chaudière-Appalaches	397,778	2,319	583	1,062	267			3,381	850
Α	Laval	376,846	1,877	498	549	146			2,426	644
Е	Lanaudière	434,873	1,973	454	584	134			2,557	588
E	Laurentides	518,622	2,556	493	1,095	211			3,651	704
Α	Montérégie	1,386,966	6,407	462	2,160	156			8,567	618
F	Nunavik	10,128	141	1,392	*	2†			14†	1,41†
F	Terre-Cries-de-Ia-Baie-James	13,305	117	879	*	†			11†	88†
	Outside of Jurisdiction		0		44				44	
	Quebec (Direct Care Total)	7,651,531	54,862	717	17,371	227			72,233	944
Ontario						1				
С	Algoma (North East LHIN)	119,860	925	772	445	371			1,370	1,143
Α	Brant County (Hamilton Niagara Haldimand Brant LHIN)	135,856	704	518	316	233			1,020	751
В	Durham (Central East LHIN)	585,560	2,395	409	980	167			3,375	576
E	Elgin-St. Thomas (South West LHIN)	88,811	529	596	273	307			802	903
E	Grey Bruce (North Simcoe Muskoka/South West/Waterloo Wellington LHIN)	161,328	989	613	449	278			1,438	891
E	Haldimand-Norfolk (Hamilton Niagara Haldimand Brant/South West LHIN)	111,900	420	375	237	212			657	587
E	Haliburton, Kawartha, Pine Ridge (Central East/South East LHIN)	175,355	813	464	451	257			1,264	721
В	Halton (Hamilton Niagara Haldimand Brant LHIN)	456,560	2,066	453	597	131			2,663	583
Α	Hamilton (Hamilton Niagara Haldimand Brant LHIN)	519,067	5,214	1,004	1,310	252			6,524	1,257
А	Hastings and Prince Edward Counties (South East LHIN)	163,175	909	557	400	245			1,309	802
E	Huron County (South West LHIN)	61,446	381	620	197	321			578	941
Α	Chatham-Kent (Erie St. Clair LHIN)	110,039	699	635	314	285			1,013	921
Α	Kingston, Frontenac and Lennox and Addington (South East LHIN)	188,608	2,123	1,126	679	360			2,802	1,486
Α	Lambton Health Unit (Erie St. Clair LHIN)	132,340	817	617	330	249			1,147	867
E	Leeds, Grenville and Lanark (Champlain/ South East LHIN)	170,497	967	567	569	334			1,536	901
Α	Middlesex-London (South West LHIN)	436,166	4,818	1,105	1,293	296			6,111	1,401
Α	Niagara Regional Area (Hamilton Niagara Haldimand Brant LHIN)	435,125	2,233	513	1,044	240			3,277	753
С	North Bay Parry Sound (North East LHIN)	125,926	952	756	558	443			1,510	1,199
Н	Northwestern (North East/West LHIN)	81,085	553	682	305	376			858	1,058
В	Ottawa (Champlain LHIN)	840,095	7,101	845	1,739	207			8,839	1,052
Е	Oxford County (South West LHIN)	106,800	510	478	238	223			748	700
В	Peel (Central West LHIN)	1,260,643	4,488	356	838	66			5,326	422
Е	Perth (South West LHIN)	77,169	513	665	201	260			714	925
Α	Peterborough County-City (Central East LHIN)	133,928	1,045	780	490	366			1,535	1,146
Н	Porcupine (North East LHIN)	88,354	698	790	314	355			1,012	1,145
E	Renfrew County (Champlain LHIN)	100,349	634	632	408	407			1,042	1,038
E	Eastern Ontario (Champlain LHIN)	199,491	897	450	441	221			1,338	671
E	Simcoe Muskoka (Mississauga Halton/ North Simcoe Muskoka LHIN)	491,102	2,799	570	1,220	248			4,019	818

Table 56 Regulated Nursing Workforce by Health Region, Canada, 2007 (cont'd)

Process Pro				Register	ed Nurses		ensed al Nurses	Registered Psychiatric Nurses		All Regula	ated Nurses
C Trunder Bay (North West LiNN) 157,150 1,518 966 671 427 427 428 42,188 1,393 1,393 1 4 4,360 1,461 1,393		Health Region Name		Care	100,000	Care	100,000	Care	100,000	Counts	100,000
C Triniskaming (North East LHIN)	С	Sudbury (North East LHIN)	197,326	1,649	836	539	273			2,188	1,109
B Waterboo (Waterboo Wellington LHIN)	С	Thunder Bay (North West LHIN)	157,150	1,518	966	671	427			2,189	1,393
Memory	С	Timiskaming (North East LHIN)	34,720	246	709	114	328			360	1,037
Section Sect	В	Waterloo (Waterloo Wellington LHIN)	491,635	2,518	512	938	191			3,456	703
B	В		265,025	1,279	483	592	223			1,871	706
Control Cont	В	Windsor-Essex County (Erie St. Clair LHIN)	405,254	2,409	594	805	199			3,214	793
Mississaga Halton/Toronto Central (LHIN)	В	York Region (Central/Central West LHIN)	947,482	3,032	320	809	85			3,841	405
Maniformal	G		2,631,725	20,358	774	3,803	145			24,160	918
Minnipage		Outside of Jurisdiction		119		15				134	
Monipeg G62,105 G,043 G,043 G,045		Ontario (Direct Care Total)	12,686,952	80,320	633	24,922	196			105,242	830
Randon	Manitol	ba									
E North Eastman	Α	Winnipeg	662,105	6,043	913	1,073	162	271	41	7,387	1,116
E	Α	Brandon	49,203	435	884	211	429	160	325	806	1,638
E Interlake	E	North Eastman	41,034	246	600	66	161	20	49	332	809
D	E	South Eastman	62,553	332	531	101	161	9	14	442	707
Decomposition Decompositio	E	Interlake	80,411	570	709	207	257	144	179	921	1,145
D	D	Central	102,491	642	626	332	323	119	116	1,093	1,066
H Norman	D	Assiniboine	69,584	435	625	328	470	28	40	791	1,137
H Norman	D			265	645	180	438	40	97	485	
F Burntwood/Churchill								8			
Manitoba (Direct Care Total) 1,177,766 9,336 793 2,644 224 815 69 12,795 1,086 Saskat-wan D Sun County 51,731 280 541 91 176 48 93 419 810 D Five Hills 52,669 328 623 111 211 126 239 565 1,073 D Cypress 42,353 273 645 114 269 15 35 402 949 A Regina Qu'Appelle 240,410 2,214 921 671 279 236 98 3,121 1,288 D Sunrise 54,720 348 636 161 294 61 111 3,070 1,042 A Saskaton 285,087 2,755 966 534 187 118 41 3,407 1,195 D Kelsey Trail 40,735 157 385 68 1	F	Burntwood/Churchill	47,137	208	441	54	115	7		269	
Saskatch-wan D Sun County 51,731 280 541 91 176 48 93 419 810 D Five Hills 52,669 328 623 111 211 126 239 565 1,073 D Cypress 42,353 273 645 114 269 15 35 402 949 A Regina Qu'Appelle 240,410 2,214 921 671 279 236 98 3,121 1,298 D Sunrise 54,720 348 636 161 294 61 111 570 1,042 A Saskaton 285,087 2,755 966 534 187 118 41 3,407 1,195 D Heartland 43,309 230 531 89 20 1 11 321 751 D Rélsey Trail 40,735 157 335 68 167		Outside of Jurisdiction		1		1		9		11	
Saskatch-wan D Sun County 51,731 280 541 91 176 48 93 419 810 D Five Hills 52,669 328 623 111 211 126 239 565 1,073 D Cypress 42,353 273 645 114 269 15 35 402 949 A Regina Qu'Appelle 240,410 2,214 921 671 279 236 98 3,121 1,298 D Sunrise 54,720 348 636 161 294 61 111 570 1,042 A Saskaton 285,087 2,755 966 534 187 118 41 3,407 1,195 D Heartland 43,309 230 531 89 20 1 11 321 751 D Rélsey Trail 40,735 157 335 68 167		Manitoba (Direct Care Total)	1,177,765	9,336	793	2,644	224	815	69	12,795	1,086
D Five Hills	Saskato										
D Five Hills	D	Sun County	51,731	280	541	91	176	48	93	419	810
D Cypress 42,353 273 645 114 269 15 35 402 949 A Regina Qu'Appelle 240,410 2,214 921 671 279 236 98 3,121 1,298 D Sunrise 54,720 348 636 161 294 61 111 570 1,042 A Saskatoon 285,087 2,755 966 534 187 118 41 3,407 1,195 D Heartland 43,309 230 531 89 206 † 11 321 751 D Kelsey Trail 40,735 157 385 68 167 18 44 243 597 C Prince Albert Parkland 74,457 533 716 244 328 62 83 839 1,127 H Prairie North 66,940 430 642 230 344 100 149	D	Five Hills	52,669	328	623	111	211	126	239	565	1,073
A Regina Qu'Appelle 240,410 2,214 921 671 279 236 98 3,121 1,298 D Sunrise 54,720 348 636 161 294 61 111 570 1,042 A Saskatoon 285,087 2,755 966 534 187 118 41 3,407 1,195 D Heartland 43,309 230 531 89 206 t 11t 32t 75t D Kelsey Trail 40,735 157 385 68 167 18 44 243 597 C Prince Albert Parkland 74,457 533 716 244 328 62 83 839 1,127 H Prairie North 66,940 430 642 230 344 100 149 760 1,135 F Mamawetan/Keewatin/Athabasca 32,975 98 297 43 130 * <td< td=""><td>D</td><td></td><td></td><td>273</td><td></td><td>114</td><td>269</td><td>15</td><td></td><td>402</td><td></td></td<>	D			273		114	269	15		402	
D Sunrise 54,720 348 636 161 294 61 111 570 1,042 A Saskatoon 285,087 2,755 966 534 187 118 41 3,407 1,195 D Heartland 43,309 230 531 89 206 t 11 321 751 D Kelsey Trail 40,735 157 385 68 167 18 44 243 597 C Prince Albert Parkland 74,457 533 716 244 328 62 83 839 1,127 H Prairie North 66,940 430 642 230 344 100 149 760 1,135 F Mamawetan/Keewatin/Athabasca 32,975 98 297 43 130 * 11 44 44 Outside of Jurisdiction 20 0 0 4 24 14 44 16	A	Regina Qu'Appelle	240,410	2,214	921	671	279	236	98	3,121	1,298
D Heartland 43,309 230 531 89 206 t 11 32t 75t D Kelsey Trail 40,735 157 385 68 167 18 44 243 597 C Prince Albert Parkland 74,457 533 716 244 328 62 83 839 1,127 H Prairie North 66,940 430 642 230 344 100 149 760 1,135 F Mamawetan/Keewatin/Athabasca 32,975 98 297 43 130 * 11 141 441 Ustide of Jurisdiction 20 0 0 4 24 24 Saskatchewan (Direct Care Total) 985,386 7,666 778 2,356 239 800 81 10,822 1,098 Alberta 5 Chinook 158,990 1,133 713 329 207 37 23 1,499 943 <td< td=""><td>D</td><td></td><td></td><td>348</td><td>636</td><td>161</td><td>294</td><td>61</td><td>111</td><td>570</td><td>1,042</td></td<>	D			348	636	161	294	61	111	570	1,042
D Kelsey Trail 40,735 157 385 68 167 18 44 243 597 C Prince Albert Parkland 74,457 533 716 244 328 62 83 839 1,127 H Prairie North 66,940 430 642 230 344 100 149 760 1,135 F Mamawetan/Keewatin/Athabasca 32,975 98 297 43 130 * 11 141 441 Qutside of Jurisdiction 20 0 4 24 24 Saskatchewan (Direct Care Total) 985,386 7,666 778 2,356 239 800 81 10,822 1,098 Alberta 5 Chinook 158,990 1,133 713 329 207 37 23 1,499 943 E Palliser 104,313 665 638 235 225 21 20 921 883	Α	Saskatoon	285,087	2,755	966	534	187	118	41	3,407	1,195
C Prince Albert Parkland 74,457 533 716 244 328 62 83 839 1,127 H Prairie North 66,940 430 642 230 344 100 149 760 1,135 F Mamawetan/Keewatin/Athabasca 32,975 98 297 43 130 * 11 141 441 Qutside of Jurisdiction 20 0 4 24 24 Saskatchewan (Direct Care Total) 985,386 7,666 778 2,356 239 800 81 10,822 1,098 Alberta E Chinook 158,990 1,133 713 329 207 37 23 1,499 943 E Palliser 104,313 665 638 235 225 21 20 921 883 B Calgary 1,237,494 8,832 714 1,396 113 224 18 10,452 845	D	Heartland	43,309	230	531	89	206	t	1†	32†	75†
C Prince Albert Parkland 74,457 533 716 244 328 62 83 839 1,127 H Prairie North 66,940 430 642 230 344 100 149 760 1,135 F Mamawetan/Keewatin/Athabasca 32,975 98 297 43 130 * 11 141 441 Qutside of Jurisdiction 20 0 4 24 24 Saskatchewan (Direct Care Total) 985,386 7,666 778 2,356 239 800 81 10,822 1,098 Alberta E Chinook 158,990 1,133 713 329 207 37 23 1,499 943 E Palliser 104,313 665 638 235 225 21 20 921 883 B Calgary 1,237,494 8,832 714 1,396 113 224 18 10,452 845	D	Kelsey Trail	40,735	157	385	68	167	18	44	243	597
F Mamawetan/Keewatin/Athabasca 32,975 98 297 43 130 * 11 141 441 Outside of Jurisdiction 20 0 0 4 24 Saskatchewan (Direct Care Total) 985,386 7,666 778 2,356 239 800 81 10,822 1,098 Alberta E Chinook 158,990 1,133 713 329 207 37 23 1,499 943 E Palliser 104,313 665 638 235 225 21 20 921 883 B Calgary 1,237,494 8,832 714 1,396 113 224 18 10,452 845 E David Thompson 307,240 2,078 676 735 239 281 91 3,094 1,007 E East Central 116,263 590 507 312 268 40 34 942 810 <td>С</td> <td>Prince Albert Parkland</td> <td>74,457</td> <td>533</td> <td>716</td> <td>244</td> <td>328</td> <td>62</td> <td>83</td> <td>839</td> <td>1,127</td>	С	Prince Albert Parkland	74,457	533	716	244	328	62	83	839	1,127
Outside of Jurisdiction 20 0 4 24 Saskatchewan (Direct Care Total) 985,386 7,666 778 2,356 239 800 81 10,822 1,098 Alberta E Chinook 158,990 1,133 713 329 207 37 23 1,499 943 E Palliser 104,313 665 638 235 225 21 20 921 883 B Calgary 1,237,494 8,832 714 1,396 113 224 18 10,452 845 E David Thompson 307,240 2,078 676 735 239 281 91 3,094 1,007 E East Central 116,263 590 507 312 268 40 34 942 810 B Capital Health 1,053,845 8,869 841 2,146 204 390 37 11,404 1,082	Н	Prairie North	66,940	430	642	230	344	100	149	760	1,135
Saskatchewan (Direct Care Total) 985,386 7,666 778 2,356 239 800 81 10,822 1,098 Alberta		Mamawetan/Keewatin/Athabasca	32,975	98		43	130	*	1†	14†	
Alberta E Chinook 158,990 1,133 713 329 207 37 23 1,499 943 E Palliser 104,313 665 638 235 225 21 20 921 883 B Calgary 1,237,494 8,832 714 1,396 113 224 18 10,452 845 E David Thompson 307,240 2,078 676 735 239 281 91 3,094 1,007 E East Central 116,263 590 507 312 268 40 34 942 810 B Capital Health 1,053,845 8,869 841 2,146 204 390 37 11,404 1,082 E Aspen 181,382 757 417 342 189 11 11 1,111 61t		Outside of Jurisdiction		20		0		4		24	
Alberta E Chinook 158,990 1,133 713 329 207 37 23 1,499 943 E Palliser 104,313 665 638 235 225 21 20 921 883 B Calgary 1,237,494 8,832 714 1,396 113 224 18 10,452 845 E David Thompson 307,240 2,078 676 735 239 281 91 3,094 1,007 E East Central 116,263 590 507 312 268 40 34 942 810 B Capital Health 1,053,845 8,869 841 2,146 204 390 37 11,404 1,082 E Aspen 181,382 757 417 342 189 11 11 1,111 61t		Saskatchewan (Direct Care Total)	985,386	7,666	778	2,356	239	800	81	10,822	1,098
E Chinook 158,990 1,133 713 329 207 37 23 1,499 943 E Palliser 104,313 665 638 235 225 21 20 921 883 B Calgary 1,237,494 8,832 714 1,396 113 224 18 10,452 845 E David Thompson 307,240 2,078 676 735 239 281 91 3,094 1,007 E East Central 116,263 590 507 312 268 40 34 942 810 B Capital Health 1,053,845 8,869 841 2,146 204 390 37 11,404 1,082 E Aspen 181,382 757 417 342 189 11 11 1,111 61t	Alberta		1			1		<u> </u>	1		1
B Calgary 1,237,494 8,832 714 1,396 113 224 18 10,452 845 E David Thompson 307,240 2,078 676 735 239 281 91 3,094 1,007 E East Central 116,263 590 507 312 268 40 34 942 810 B Capital Health 1,053,845 8,869 841 2,146 204 390 37 11,404 1,082 E Aspen 181,382 757 417 342 189 11 11 1,111 61t	Е	Chinook	158,990	1,133	713	329	207	37	23	1,499	943
B Calgary 1,237,494 8,832 714 1,396 113 224 18 10,452 845 E David Thompson 307,240 2,078 676 735 239 281 91 3,094 1,007 E East Central 116,263 590 507 312 268 40 34 942 810 B Capital Health 1,053,845 8,869 841 2,146 204 390 37 11,404 1,082 E Aspen 181,382 757 417 342 189 11 11 1,111 61t	E	Palliser	104,313	665	638	235	225	21	20	921	883
E East Central 116,263 590 507 312 268 40 34 942 810 B Capital Health 1,053,845 8,869 841 2,146 204 390 37 11,404 1,082 E Aspen 181,382 757 417 342 189 11 11 1,111 611											
B Capital Health 1,053,845 8,869 841 2,146 204 390 37 11,404 1,082 E Aspen 181,382 757 417 342 189 1t 1t 1,11t 61t	Е	David Thompson	307,240	2,078	676	735	239	281	91	3,094	1,007
E Aspen 181,382 757 417 342 189 1t 1t 1,11t 61t	Е	East Central	116,263	590	507	312	268	40	34	942	810
	В	Capital Health	1,053,845	8,869	841	2,146	204	390	37	11,404	1,082
E Peace Country 141,210 800 567 291 206 33 23 1,124 796	Е	Aspen	181,382	757	417	342	189	1†	1†	1,11†	61†
	Е	Peace Country	141,210	800	567	291	206	33	23	1,124	796

Table 56 Regulated Nursing Workforce by Health Region, Canada, 2007 (cont'd)

			Register	ed Nurses	Practical Nurses			istered tric Nurses	All Regula	ated Nurses
Peer Group	Health Region Name	Population Estimates	Direct Care Counts	Per 100,000 Population	Direct Care Counts	Per 100,000 Population	Direct Care Counts	Per 100,000 Population	Counts	Per 100,000 Population
Н	Northern Lights	75,026	391	521	95	127	*	*	48†	65†
	Outside of Jurisdiction		17		2		4		23	
	Alberta (Direct Care Total)	3,375,763	24,132	715	5,883	174	1,051	31	31,066	920
British (Columbia									
E	East Kootenay	78,850	402	509	170	216	7	9	578	733
С	Kootenay/Boundary	77,658	493	634	143	184	15	19	650	837
Α	Okanagan	334,571	2,259	675	799	239	134	40	3,189	953
С	Thompson/Cariboo	217,684	1,217	559	322	148	70	32	1,608	739
Α	Fraser East	265,614	1,191	448	317	119	132	50	1,639	617
В	Fraser North	581,499	3,194	549	604	104	669	115	4,463	767
В	Fraser South	646,906	2,759	426	602	93	242	37	3,600	556
В	Richmond	184,952	578	312	147	79	32	17	756	409
G	Vancouver	624,347	6,547	1,047	602	96	243	39	7,385	1,183
В	North Shore/Coast Garibaldi	283,493	1,289	454	259	91	76	27	1,623	573
Α	South Vancouver Island	349,802	3,087	882	576	165	114	33	3,774	1,079
Α	Central Vancouver Island	256,729	1,358	529	535	208	69	27	1,961	764
С	North Vancouver Island	117,705	748	635	157	133	23	20	927	788
Н	Northwest	78,830	348	441	118	150	14	18	480	609
Н	Northern Interior	145,889	992	679	261	179	32	22	1,284	880
Н	Northeast	65,923	232	352	92	140	23	35	347	526
	Outside of Jurisdiction		2		2		2		6	
	British Columbia (Direct Care Total)	4,310,452	26,696	619	5,706	132	1,897	44	34,299	796
Norther	n Territories									
Н	Yukon Territory	31,229	274	874	57	183			330	1,057
	Outside of Jurisdiction		5		0				5	
Н	Northwest Territories	41,861	426	1,018	88	210			514	1,228
F	Nunavut	30,782	192	624	0	0			192	624
	Outside of Jurisdiction (Northwest Territories and Nunavut)		295		0				295	
	Northern Territories (Direct Care Total)	103,872	1,192	1,148	145	140			1,337	1,287
Canada										
	Canada (Direct Care)	32,623,490	224,964	690	67,866	208	4,563	46	297,393	912

Notes

- Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.
- Digit suppressed to ensure confidentiality; digit value is from 0 to 9 and corresponding percentage value.

Nurses not in the workforce are excluded from the data (n = 29,914).

The health region data presented in this publication include only regulated nurses who work in direct patient care; those employed in administration, education or research are excluded from the health region totals.

Outside of jurisdiction includes nurses with a postal code outside the province or territory of analysis.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

See Chapter 5 (Methodological Notes) for more information regarding the collection and comparability of data.

The population estimates used in this publication are based on the annual (calendar year) preliminary postcensal (PP) estimates of the population counted on July 1, 2006, Canada, provinces and territories (catalogue number 91-213-SCB, File: AS0106.xls), Statistics Canada; the peer groups used in this publication were retrieved July 10, 2008, from www.statcan.ca/english/freepub/82-221-XIE/2008001/hregions/hrtable2-en.htm.

The Canada registered psychiatric nurse (RPN) per 100,000 population rate was calculated using the population estimate for the four western provinces (Manitoba, Saskatchewan, Alberta and British Columbia).

Data for Ontario are categorized based on public health units with corresponding local health integration networks (LHINs).

For registered nurses in Alberta, the six-digit postal code of residence was used, as only the first three digits of the postal code of worksite are submitted to CIHI.

The Ordre des infirmières et infirmiers du Québec (OIIQ) contributed the data presented in this table.

Sources

Regulated Nursing Database, Canadian Institute for Health Information; Statistics Canada Population Estimates.

Table 57 Principal Characteristics of Each Peer Group as Defined by Statistics Canada

This table lists the principal characteristics for each peer group.[‡]

Peer Group	Number of Health Regions	Percentage of Population	Principal Characteristics
			Urban-rural mix from coast to coast
А	23	24.6%	Average percentage of Aboriginal population
	23	24.0%	Low male population
			Slow population growth from 1996 to 2001
			Mainly urban centres with moderately high population density
В	14	27.0%	Low percentage of government transfer income
			Rapid population growth from 1996 to 2001
			Sparsely populated urban-rural mix from coast to coast
С	24	12.3%	Average percentage of Aboriginal population
			Negative population growth
			Rural regions mainly in the central Prairies
			Moderate Aboriginal population
D	10	1.7%	Moderately high percentage of government transfer income
			Almost equal numbers of men and women
			Negative population growth
			Mainly rural regions in Quebec, Ontario and the Prairies
			High proportion of people recently moved to or within these
Е	24	13.3%	regions since 1996
			Average percentage of Aboriginal population
			Moderate population growth
			Northern and remote regions
			Very high Aboriginal population
F	5	0.4%	Moderately high percentage of government transfer income
			Slightly higher male population
			Moderate population growth
			Largest metro centres with an average population density
			of 3,934 people per square kilometre
G	3	16.2%	Low Aboriginal population
			Moderate percentage of government transfer income
			High female population
			Rural northern regions
Н	13	2.7%	High Aboriginal population
	13	2.7 70	High male population
			Negative population growth
			Mainly rural Eastern regions
			Very high percentage of government transfer income
I	8	1.9%	Negative population growth
			Low percentage of people having moved to or within these
			regions since 1996

Notes

Percentage of population refers to the percentage of the Canadian population living in a specific type of peer group. The full publication and cluster analysis methodology are available from the Statistics Canada^{5, **} website.

Sources

- ‡ Statistics Canada, Summary Table of Peer Groups and Principal Characteristics (2008), [online], cited from http://www.statcan.ca/english/freepub/82-221-XIE/2008001/hregions/hrtable4-en.htm.
- Statistics Canada, *Health Region Peer Groups* (2002), [online], cited from http://www.statcan.ca/english/freepub/82-221-XIE/2005001/pdf/hrpeergroup.pdf.
- ** Statistics Canada, *Health Region Peer Groups 2003* (2004), [online], cited from http://www.statcan.ca/english/freepub/82-221-XIE/2005001/pdf/workingpaper.pdf.

Chapter 5—Methodological Notes

This chapter will provide a better understanding of the strengths and limitations of the nursing data, and of how they can be effectively used and analyzed. The information is particularly important when making comparisons with other data sources and when drawing conclusions regarding changes over time.

Data Quality

CIHI is founded upon the principles of data quality, privacy and confidentiality. Data collection, processing, analysis and dissemination are guided by CIHI's commitment to ensuring high-quality data in a privacy-sensitive manner. This section outlines methodologies used to maximize the accuracy, comparability, timeliness, usability and relevance of the Nursing Database.

Privacy and Confidentiality

To safeguard the privacy and confidentiality of data received by CIHI, guidelines have been developed to govern the publication and release of health information in accordance with provincial privacy legislation.

Data Collection

To practise as a regulated nurse in Canada, annual registration with the respective provincial or territorial regulatory authority is mandatory, requiring the completion of a registration form. The completed registration form is the property of the provincial/territorial regulatory authorities. Through an agreement with CIHI, each regulatory authority (and, in the case of RNs, the Canadian Nurses Association) includes a standardized set of questions on registration forms. These questions pertain to demographic, education/training and employment characteristics.

By agreement, regulatory authorities submit responses to the standardized questions once per year, in accordance with an established schedule. CIHI and the regulatory authorities jointly review and scrutinize the submitted data, applying the principles of data quality. Once the regulatory authority and CIHI approve the final data, they are added to the nursing database at CIHI for analysis and reporting.

Note that the statistics reported by CIHI may differ from the statistics reported by the regulatory authorities, even though the source of the data (annual registration forms) is the same. The differences are due to the population of reference, the collection period, exclusions from CIHI data and CIHI editing and processing methodologies based on data quality principles.

Population of Interest

The population of interest includes all regulated nurses submitting active practising registration in a Canadian province or territory. The population of interest is also further refined to include only regulated nurses who fit the definition formulated by CIHI in consultation with regulated nursing stakeholders to best serve health human resources (HHR) planning and research needs on a national level. As a result, there are some regulated nurses whose data are not collected by CIHI. These include regulated nurses submitting non-practising registrations (where available from the provincial/territorial regulatory authority) and regulated nurses living or working outside Canada who have not maintained a Canadian license.

Population of Reference and Collection Period

CIHI takes steps to manipulate the population of reference of the nursing database to more closely represent the population of interest. CIHI does not wait for the end of the 12-month registration period in each jurisdiction before collecting data so that it can meet data quality guidelines for timeliness. Therefore, the population of reference for the Nursing Database is all regulated nurses submitting active practising registration in a Canadian province or territory in the first six months of the registration year. The 12-month registration period varies among the provinces and territories, as each jurisdiction is responsible for setting the start and end dates of its own registration period.

The difference between the population of interest and the population of reference enables CIHI to produce more timely data. Analyses completed annually by CIHI indicate that fewer than 4% of regulated nurses register after the six-month mark, thus ensuring that CIHI's trends are consistent with provincial/territorial trends that include those registering after the six-month mark. Tables 58, 59 and 60 show the differences between counts after 6 months and 12 months during the registration years for each nursing profession.

Table 58 Comparison of RN Regulatory Authority 12-Month Counts to CIHI 6-Month Counts, Canada, 2007

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T./ Nun.	Total
Total Active Practising Registrations	5,839	1,575	9,653	8,612	70,181	113,012	11,685	9,151	29,368	32,747	352	1,273	293,448
Submitted to CIHI	5,670	1,453	9,183	8,212	67,190	109,673	11,685	8,830	28,350	31,204	327	1,214	282,991
Primary Registrations	5,639	1,445	9,097	8,117	66,589	102,954	11,383	8,763	28,168	30,728	327	1,064	274,274
Employed in Psychiatric Nursing	5,574	1,435	8,843	7,726	64,955	90,978	10,825	8,669	27,527	30,059	322	1,048	257,961

Notes

Active practising registrations for Prince Edward Island, Nova Scotia, Saskatchewan, British Columbia and the Northwest Territories and Nunavut include temporary registrations.

Active practising registrations for Alberta include temporary registrations and non-practising registrations.

Sources

Regulated Nursing Database, Canadian Institute for Health Information; provincial/territorial RN regulatory authorities.

Table 59 Comparison of LPN Regulatory Authority 12-Month Counts to CIHI 6-Month Counts, Canada, 2007

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nun.	Total
Total Active Practising Registrations	2,738	685	3,564	2,982	20,526	33,130	2,889	2,558	7,188	6,527	73	136		82,996
Submitted to CIHI	2,652	658	3,405	2,822	19,826	31,087	2,749	2,395	6,789	6,338	67	99		78,887
Primary Registrations	2,650	658	3,379	2,809	19,801	30,672	2,735	2,392	6,598	6,233	62	91		78,080
Employed in Psychiatric Nursing	2,598	623	3,160	2,734	17,492	26,126	2,671	2,381	5,986	5,791	59	88		69,709

Note

.. Data not currently collected by CIHI.

Sources

Regulated Nursing Database, Canadian Institute for Health Information; provincial/territorial LPN regulatory authorities.

Table 60 Comparison of RPN Regulatory Authority 12-Month Counts to CIHI 6-Month Counts, Canada, 2007

	Man.	Sask.	Alta.	B.C.	Total
Total Active Practising Registrations	963	914	-	_	1,877
Submitted to CIHI	964	901	1,215	2,172	5,252
Primary Registrations	961	896	1,204	2,169	5,230
Employed in Psychiatric Nursing	952	880	1,158	2,134	5,124

Note

Information was not available.

Sources

Regulated Nursing Database, Canadian Institute for Health Information; provincial RPN regulatory authorities,

The population of reference includes the following definitions:

Non-Practising Registrations

The target population includes regulated nurses submitting active practising registrations; those submitting non-practising registrations are excluded. At present, Quebec and Ontario are the only jurisdictions that do not offer the option of active practising or non-practising registration status to registered nurses and licensed practical nurses (in the case of Ontario): there is only one type of registration. Therefore, Quebec submits data on RNs who are not practising, and Ontario submits data on RNs and LPNs who are not currently practising. While this is not technically a source of over-coverage—because all registrations in these provinces are considered active practising—the result is that some data fields will have a higher proportion of not stated values.

First-Time Registrants

The jurisdictions of Nova Scotia and Ontario do not submit data from first-time RN registrants, and Ontario and Prince Edward Island do not submit data from first-time LPN registrants, whether they are new graduates or individuals new to the jurisdiction. As many first-time registrants are also active practising, this is a source of under-coverage.

The Yukon and the Northwest Territories do submit information on some first-time LPN registrants; the Yukon does not submit data for registrants coming from other countries, and the Northwest Territories does not submit data for first-time registrants coming from other Canadian jurisdictions or from other countries. Because many first-time registrants are also active practising LPNs, this is a source of under-coverage.

All four jurisdictions submitting RPN data include data on first-time registrants, whether they are new graduates or individuals new to the jurisdiction. However, the initial registration form for the jurisdictions does not consistently ask for employment information. This may create some under-coverage or a higher number of non-responses.

Nurses on Leave

The target population excludes any regulated nurse not currently practising at the time of registration. This creates some confusion for regulated nurses on leave (such as maternity/paternity leave, education leave or short-term illness or injury) as they may or may not be returning to work during the registration period. Therefore, they may submit an active practising registration (where the option exists), but may not actually be practising at the time of registration.

Therefore, the assumption is made that regulated nurses on temporary leave submit active practising registrations with full employment information (when possible) with the intent of returning to that position when the temporary leave ends. While this is not a source of over-coverage, the fact is that some regulated nurses are not practising for the full year of registration.

Non-Response

Table 61 presents the item non-response, or the percentage of "not stated" responses for each data element. Only responses for regulated nurses in the workforce are included.

Many of the tables and figures throughout the report have the non-response rates included in the footnotes.

Table 61 Percentage of Records Employed in Nursing With Not Stated Responses by Data Element and Province/Territory of Registration, Canada, 2007

	N.I	L.	P.E	i.l.	N.	s.	N.E	3.	Qu	ie.	On	ıt.		Man.	1		Sask.	1		Alta.	1		B.C.		Y.T	.	N.W.T.	/N.U.	(anada	
	RN	LPN	RN	LPN	RN	LPN	RN	LPN	RN	LPN	RN	LPN	RN	LPN	RPN	RN	LPN	RPN	RN	LPN	RPN	RN	LPN	RPN	RN	LPN	RN	LPN	RN	LPN	RPN
Gender	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0
Year of Birth	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.1
Initial/Entry Practical Nurse Education	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Year of Graduation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Province/Country of Graduation	0.0	0.1	0.1	0.2	0.0	0.0	0.1	0.0	0.0	3.2	0.2	0.0	0.0	0.0	0.0	1.0	0.0	0.0	6.0	0.0	0.0	0.4	0.2	5.3	0.3	0.0	0.2	0.0	0.8	0.8	2.2
Other Education in Nursing	0.0	100.0	0.0	99.5	0.0	10.8	0.0	99.3	0.0	88.9	0.0	0.0	0.0	11.6	91.4	0.0	20.7	0.0	0.0	0.0	85.5	0.0	56.0	16.6	0.0	3.4	0.0	100.0	0.0	37.2	43.2
Education in Other Than Nursing	0.0	0.0	1.7	98.2	0.0	11.7	0.0	100.0	84.5	93.6	61.1	50.5	0.0	11.0	83.9	0.0	18.1	0.0	0.0	0.0	76.2	0.0	48.5	17.2	0.0	3.4	93.3	100.0	43.2	52.9	40.0
Employment in Practical Nursing	0.0	0.5	0.0	3.4	1.9	6.1	1.7	0.8	2.0	12.3	0.5	0.7	5.2	1.2	0.9	0.1	0.0	1.7	0.2	0.0	3.9	1.1	5.5	0.4	0.0	0.0	1.1	2.3	1.1	4.2	1.5
Multiple Employment	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.1	0.1	0.0	0.0	0.0	0.7	2.0	0.9	0.0	79.5	100.0	0.3	0.2	0.9
Province/Territory of Employment	1.5	0.5	0.3	0.0	0.1	4.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.5	0.3	0.1	0.0	1.8	0.1	0.0	0.0	6.8	0.2	0.2	0.0	0.0	0.0	0.0	0.9	0.3	0.4
Place of Work-Primary	0.1	0.5	0.1	0.2	0.0	0.9	0.0	0.4	0.0	0.0	1.9	3.5	0.4	0.5	0.2	0.0	0.1	1.6	0.1	0.0	0.1	0.8	0.1	1.5	0.0	0.0	2.1	0.0	0.8	1.4	1.0
Area of Responsibility-Primary	0.1	2.4	0.1	0.5	2.6	1.9	0.0	0.4	2.7	0.0	2.0	2.9	0.3	0.0	0.6	0.6	0.1	2.0	4.0	0.0	0.4	0.6	0.1	4.0	0.9	0.0	3.1	0.0	2.0	1.3	2.2
Position—Primary	0.2	0.4	0.1	0.2	0.1	2.0	0.0	0.1	1.4	0.2	1.5	2.3	0.5	0.0	0.2	0.0	0.1	1.7	0.2	0.0	0.5	1.8	0.1	0.8	0.0 1	0.00	3.0	0.0	1.2	1.1	0.8
Province/Country of Residence	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes

<0.1 value is less than 0.05%; value is replaced to prevent displaying cells of 0.0 that are not true zero values.

Values of 100.0 indicate a data element that was not submitted for the 2006 data year.

For the fields Postal Code of Residence and Postal Code of Primary Worksite, non-response is defined as a postal code that did not successfully match the July 2006 release of the Statistics Canada Postal Code Conversion File (PCCF).

Data for the Northwest Territories and Nunavut are combined fro 2006.

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Duplicate Records

It is necessary to identify and remove duplicate records within the database. Duplicates may arise when regulated nurses register in more than one jurisdiction. A comparison is done between the jurisdictions of registration and employment for each record; where they are not equal, the record is excluded. Where the jurisdiction of residence is not stated, the jurisdiction of employment is defaulted to the jurisdiction of registration and the record is not excluded.

It is common for regulated nurses to work in the territories on a temporary basis and to return to their home province for part of the year. In these cases, where the province of employment is a territory, the duplicates are not excluded so that the nursing workforce in the north will not be underestimated.

There are some cases where double counting cannot be avoided. For example, a regulated nurse who registers and works in more than one province/territory simultaneously would be double-counted in the Nursing Database, as the province of employment would match the province of registration in each jurisdiction.

The data for RNs for Nunavut and the Northwest Territories are presented as a combined total throughout this report. The registered nurses in these territories are governed by the same regulatory authority, and the territory in which RNs usually worked was not available, so the combined data were submitted to CIHI. Therefore, any duplicates between the Northwest Territories and Nunavut cannot be resolved.

Defining the Workforce

Note the difference between the Nursing Database and the workforce. While the database contains all records in the population of reference, the employment status indicator is used to exclude from the workforce regulated nurses who are not working in nursing (see Figure 61). Throughout this report and other CIHI publications, the focus is on the regulated nurses who are working in nursing, or the regulated nursing workforce.

Re-Coding Employment Status

Regulated nurses who fail to provide their position status (that is, as full time, part time or casual) on their registration risk being excluded from the workforce. However, in cases where position status was not stated but employment information was provided, CIHI, in consultation with the regulatory authority, will change the employment status to employed in nursing and the position status to employment status unknown in order to ensure that the record is included in the workforce. This methodology has been applied to all nursing types since 2003, with the exception of B.C. RNs in 2005.

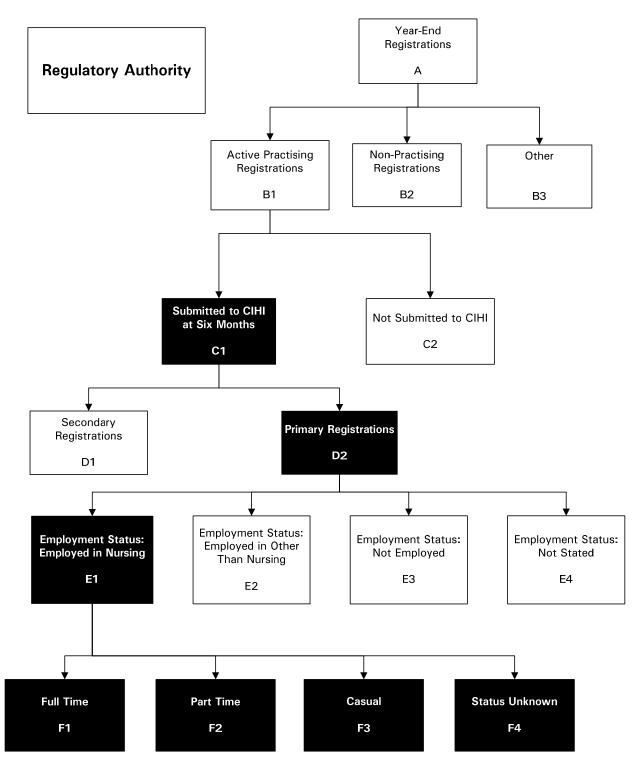


Figure 61 Tracking Regulatory Authority Data to CIHI: The Regulated Nursing Workforce

A: ALL REGISTRATIONS

Number of registrations submitted to a regulatory authority for nursing.

B: TYPES OF REGISTRATIONS

Box B1 is the number of active practising registrations received by the regulatory authority.

Box B2 is the number of non-practising registrations received by the regulatory authority.

Box B3 is the number of other registrations received by the regulatory authority.

C: RECORDS SUBMITTED TO CIHI

Box C1 is the number of active practising registrations submitted during the first six months of the registration year.

Box C2 is the number of registrants not submitted to CIHI.

D: PRIMARY AND SECONDARY REGISTRATION

Box D1 is the number of regulated nurses whose jurisdiction of registration is different from the jurisdiction of employment. These records are outside of the population of reference, except where either the jurisdiction of registration or employment is a territory.

Box D2 is the number of regulated nurses whose jurisdiction of registration is the same as the jurisdiction of employment.

E: EMPLOYMENT STATUS

Box E1 is the number of regulated nurses whose employment status is submitted as employed in nursing. These regulated nurses are included in the workforce.

Boxes E2 to E4 are the numbers of regulated nurses who are excluded from the workforce, as they are not reported as employed in nursing.

F: POSITION STATUS

Boxes F1 to F4 represent the number of regulated nurses included in the nursing workforce. A regulated nurse may have a position status of full time, part time, casual or unknown.

The boxes in black are included in the workforce, and the boxes in white are either not submitted or are excluded by CIHI.

Analytical Methods

Formula for Average Annual Increase

Chapters 1 to 3 (Supply of Nurses): Average Annual Growth Rate

Average Annual Growth Rate (%) = $(FV / PV)^{(1/t)}$ - 1

where FV = future value; PV = present value; t = time period

This formula represents the average annual growth rate over a defined time period $(t = T_{k+1} - T_1)$. The population of each regulated nursing profession is compared at two points in time. PV is the population of regulated nurses at the beginning of the time period, and FV is the population at the end of the time period, or t years later.

FTE Methodology

Full-time equivalents (FTEs) are used to enhance our interpretation of the supply of regulated nurses by contributing to our understanding of the output of the nursing workforce. The actual supply of regulated nurses can be measured by converting their hours worked into an FTE number. This is a useful measure of supply because it takes into account the number of hours worked by a regulated nurse. By further defining supply in terms of an FTE value, meaningful comparisons across jurisdictions and professions can be made. Ideally, one FTE reflects the typical workload of one average regulated nurse.

The number of FTE regulated nurses equals the number of regulated nurses multiplied by the total weekly hours worked, divided by the number of hours in a standard full-time working week. The standard working week used in this publication is 37.3 hours.

By using the 2005 National Survey of the Work and Health of Nurses, we were able to determine the total weekly hours worked in order to perform the FTE calculations above.

Urban/Rural Statistics

Urban areas are defined (in part) as communities with populations greater than 10,000 people and are labelled by Statistics Canada as either census metropolitan area (CMA) or census agglomeration (CA); rural/remote is equated with communities outside the CMA/CA boundaries and is referred to as rural and small town (RST) by Statistics Canada.

RST communities are further subdivided by identifying the degree to which they are influenced in terms of social and economic integration with larger urban centres (that is, CMAs and CAs). Metropolitan influenced zone (MIZ) categories disaggregate the RST population into four subgroups: strong MIZ, moderate MIZ, weak MIZ and no MIZ. These urban/rural/remote categories are applied to communities (such as cities, towns and villages) that can be equated with the Statistics Canada designation census subdivision (CSD).

The CMA/CA and MIZ categories were collapsed. These categories may be interpreted in the following simple manner: CMA/CA = large urban centre (urban); strong/moderate MIZ = small towns and rural areas located relatively close to larger urban centres (rural); weak/no MIZ = small towns, rural and remote communities distant from large urban centres (remote).

Details of the RST and MIZ classification schemes can be found in McNiven et al. (2000),⁴ du Plessis et al. (2001)⁵ and CIHI (2002).⁶

Comparability of Data

CIHI would like to acknowledge that each regulatory authority has been extremely cooperative and helpful in improving its data collection methods and in helping CIHI to develop methodologies to enhance data quality. As part of the data submission process, the regulatory authorities submit to CIHI the changes that have been made to their databases for inclusion in this publication. A review of this information is helpful when looking at trends over time and comparing jurisdictions.

Data prior to 2002 for LPNs and RPNs were published in the CIHI publication series *Health Personnel Trends in Canada* (formerly *Health Personnel in Canada*). The 1993 to 2001 data produced in *Health Personnel Trends* are not directly comparable to the data presented in this publication because the collection methodologies have changed. LPN and RPN data from 2002 to the present in the *Health Personnel Trends* series are consistent with the figures presented in this series of publications.

The historical and methodological changes for each regulated nursing profession can be found at the end of chapters 1 to 3.

For a complete listing of data elements in the regulated Nursing Database, see the data dictionaries on the CIHI nursing website:

- Registered Nurses System Data Dictionary and Processing Manual;
- Licensed Practical Nurses System Data Dictionary and Processing Manual; and
- Registered Psychiatric Nurses Data Dictionary and Processing Manual.

Appendix A Provincial Nursing Workforce Profiles

Regulated Nursing Workforce Profile, Newfoundland and Labrador, 2007

		Regis	stered N	urses	Licer	nsed Prac Nurses	ctical	Registe	ered Psyc Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	5,574			2,598			_		
Sex	Male	263	4.7	5.8	330	12.7	7.0	_	_	22.5
Sex	Female	5,311	95.3	94.2	2,268	87.3	93.0	-	-	77.5
Average Age	Years	42.5			44.8			-		
	<35 Years	1,295	23.2	20.3	434	16.7	23.6	-	-	13.4
Age	35-49 Years	2,784	49.9	40.7	1,254	48.3	40.6	-	-	42.2
Breakdown	50 + Years	1,494	26.8	38.9	910	35.0	35.8	-	_	44.3
	Not Stated	1	< 0.1	< 0.1	0	0.0	< 0.1	-	_	0.1
	Full Time	3,946	70.8	56.6	1,466	56.4	47.2	_	_	67.3
Employment	Part Time	932	16.7	31.8	152	5.9	34.3	-	_	19.8
Status	Casual	696	12.5	10.5	979	37.7	18.0	-	-	12.1
	Employed—Status Unknown	0	0.0	1.1	1	< 0.1	0.5	-	_	0.8
	Hospital	3,764	67.5	62.3	1,092	42.0	44.9	-	_	40.3
	Community Health Agency	666	11.9	14.0	78	3.0	6.7	-	_	25.5
Place of Work	Nursing Home/LTC Facility	560	10.0	10.5	1,381	53.2	39.4	_	_	20.6
	Other Place of Work	579	10.4	12.4	35	1.3	7.6	-	_	12.6
	Not Stated	5	0.1	0.8	12	0.5	1.4	-	-	1.0
A	Direct Care	5,008	89.8	87.2	2,530	97.4	97.4	-	_	89.1
Area of Responsibility	Administration/Educ./Research	562	10.1	10.8	5	0.2	1.4	-	-	8.7
Nesponsibility	Not Stated	4	0.1	2.0	63	2.4	1.3	-	-	2.2
	Managerial Positions	583	10.5	7.1	0	0.0	1.3	-	_	10.9
Position	Staff/Community Health Nurse	4,336	77.8	77.4	2,460	94.7	91.4	-	-	78.7
Position	Other Positions	645	11.6	14.3	128	4.9	6.2	-	_	9.7
	Not Stated	10	0.2	1.2	10	0.4	1.1	-	_	0.8
Multiple	Single Employer	4,897	87.9	86.1	2,255	86.8	82.1			76.3
Employment	Multiple Employers	671	12.0	13.5	343	13.2	17.6	-	_	22.8
Status	Not Stated	6	0.1	0.3	0	0.0	0.2	-	_	0.9
Highest	Diploma	3,575	64.1	61.7	2,598	100.0	100.0	-	-	92.6
Education	Baccalaureate	1,852	33.2	35.5	-	-	-	-	-	7.2
in Nursing	Master's/Doctorate	147	2.6	2.8	_	_	-	-	_	0.2
Discipline	Not Stated	0	0.0	< 0.1						0.0
l a a diam of	Canadian-Trained	5,481	98.3	91.3	2,59†	t	97.3	_	_	90.9
Location of Graduation	Internationally Educated	91	1.6	7.9	*	*	1.9	-	-	6.9
Graduation	Not Stated	2	< 0.1	0.8	†	†	0.8	=	=	2.2

Notes

- Data are not applicable or do not exist.
- * Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.
- † Digit suppressed to ensure confidentiality.

Totals may not sum to 100% due to rounding.

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

Regulated nurses employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

<0.1 Value is less than 0.05%; value is replaced to prevent displaying cells of 0.0 that are not zero.

Regulated Nursing Workforce Profile, Prince Edward Island, 2007

		Regis	stered N	urses	Licer	nsed Prac Nurses	ctical	Registe	ered Psyc Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	1,435			623			-		
Sex	Male	39	2.7	5.8	56	9.0	7.0	-	1	22.5
Sex	Female	1,396	97.3	94.2	567	91.0	93.0	_	_	77.5
Average Age	Years	46.2			45.5			_		
	<35 Years	241	16.8	20.3	103	16.5	23.6	_	_	13.4
Age	35-49 Years	601	41.9	40.7	280	44.9	40.6	-	_	42.2
Breakdown	50 + Years	590	41.1	38.9	240	38.5	35.8	-	_	44.3
	Not Stated	3	0.2	< 0.1	0	0.0	< 0.1	-	_	0.1
	Full Time	695	48.4	56.6	272	43.7	47.2	_	_	67.3
Employment	Part Time	554	38.6	31.8	232	37.2	34.3	-	_	19.8
Status	Casual	183	12.8	10.5	119	19.1	18.0	-	_	12.1
	Employed—Status Unknown	3	0.2	1.1	0	0.0	0.5	-	_	0.8
	Hospital	862	60.1	62.3	303	48.6	44.9	-	1	40.3
	Community Health Agency	160	11.1	14.0	30	4.8	6.7	-	_	25.5
Place of Work	Nursing Home/LTC Facility	222	15.5	10.5	248	39.8	39.4	_	_	20.6
	Other Place of Work	190	13.2	12.4	41	6.6	7.6	-	_	12.6
	Not Stated	1	0.1	0.8	1	0.2	1.4	-	_	1.0
	Direct Care	1,274	88.8	87.2	618	99.2	97.4	-	1	89.1
Area of Responsibility	Administration/Educ./Research	159	11.1	10.8	t	t	1.4	-	_	8.7
Nesponsibility	Not Stated	2	0.1	2.0	t	t	1.3	-	_	2.2
	Managerial Positions	175	12.2	7.1	6	1.0	1.3	-	_	10.9
Position	Staff/Community Health Nurse	1,084	75.5	77.4	564	90.5	91.4	-	-	78.7
Position	Other Positions	175	12.2	14.3	52	8.3	6.2	-	_	9.7
	Not Stated	1	0.1	1.2	1	0.2	1.1	_	_	0.8
Multiple	Single Employer	1,240	86.4	86.1	464	74.5	82.1	-	1	76.3
Employment	Multiple Employers	195	13.6	13.5	159	25.5	17.6	-	_	22.8
Status	Not Stated	0	0.0	0.3	0	0.0	0.2	-	_	0.9
Highest	Diploma	868	60.5	61.7	623	100.0	100.0	_		92.6
Education	Baccalaureate	531	37.0	35.5	-	-	-	-	-	7.2
in Nursing	Master's/Doctorate	32	2.2	2.8	-	_	_	-	-	0.2
Discipline	Not Stated	4	0.3	< 0.1		<u> </u>				0.0
	Canadian-Trained	1,404	97.8	91.3	621	99.7	97.3	_	_	90.9
Location of Graduation	Internationally Educated	29	2.0	7.9	*	*	1.9	-	-	6.9
Graduation	Not Stated	2	0.1	0.8	†	†	0.8			2.2

Notes

- Data are not applicable or do not exist.
- * Value suppressed in accordance with CIHI privacy policy; cell value is from 1 to 4.

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Northern territories data may include inter-jurisdictional duplicates.

See Chapter 5 (Methodological Notes) for more information regarding collection and comparability of data.

Source

[†] Digit suppressed to ensure confidentiality.

<0.1 Value is less than 0.05%; value is replaced to prevent displaying cells of 0.0 that are not zero.

Totals may not sum to 100% due to rounding.

Regulated Nursing Workforce Profile, Nova Scotia, 2007

		Regis	stered N	urses	Licer	nsed Prac	ctical	Registe	ered Psyc	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	8,843			3,160			1		
Sex	Male	330	3.7	5.8	165	5.2	7.0	_	_	22.5
Sex	Female	8,513	96.3	94.2	2,995	94.8	93.0	_	I	77.5
Average Age	Years	46.2			44.9			=		
	<35 Years	1,308	14.8	20.3	569	18.0	23.6			13.4
Age	35-49 Years	3,937	44.5	40.7	1,460	46.2	40.6	=	=	42.2
Breakdown	50 + Years	3,598	40.7	38.9	1,131	35.8	35.8	=	=	44.3
	Not Stated	0	0.0	< 0.1	0	0.0	< 0.1	=		0.1
	Full Time	5,656	64.0	56.6	1,602	50.7	47.2	1	1	67.3
Employment	Part Time	2,353	26.6	31.8	852	27.0	34.3	=	=	19.8
Status	Casual	834	9.4	10.5	696	22.0	18.0	_	=	12.1
	Employed—Status Unknown	0	0.0	1.1	10	0.3	0.5	_	_	0.8
	Hospital	6,059	68.5	62.3	1,488	47.1	44.9	_	_	40.3
	Community Health Agency	922	10.4	14.0	337	10.7	6.7	=	=	25.5
Place of Work	Nursing Home/LTC Facility	983	11.1	10.5	1,119	35.4	39.4	_	_	20.6
	Other Place of Work	877	9.9	12.4	187	5.9	7.6	=	=	12.6
	Not Stated	2	< 0.1	0.8	29	0.9	1.4	_	_	1.0
Area of	Direct Care	7,565	85.5	87.2	3,051	96.6	97.4	_	_	89.1
Responsibility	Administration/Educ./Research	1,047	11.8	10.8	48	1.5	1.4	_	_	8.7
поороновынту	Not Stated	231	2.6	2.0	61	1.9		_	_	2.2
	Managerial Positions	967	10.9	7.1	75	2.4	1.3	-	-	10.9
Position	Staff/Community Health Nurse	6,934	78.4	77.4	2,864	90.6	91.4	_	_	78.7
Coltion	Other Positions	934	10.6	14.3	157	5.0	6.2	_	_	9.7
	Not Stated	8	0.1	1.2	64	2.0	1.1	-	-	0.8
Multiple	Single Employer	8,037	90.9	86.1	2,539	80.3	82.1	-	-	76.3
Employment	Multiple Employers	806	9.1	13.5	621	19.7	17.6	=	=	22.8
Status	Not Stated	0	0.0	0.3	0	0.0	0.2	-	-	0.9
Highest	Diploma	5,438	61.5	61.7	3,160	100.0	100.0	_	-	92.6
Education	Baccalaureate	3,137	35.5	35.5	-	_	-	_	=	7.2
in Nursing	Master's/Doctorate	268	3.0	2.8	-	-	-	-	-	0.2
Discipline	Not Stated	0	0.0	< 0.1	_	_	-	_	_	0.0
Location of	Canadian-Trained	8,631	97.6	91.3	3,150	99.7	97.3	-	-	90.9
Graduation	Internationally Educated	212	2.4	7.9	10	0.3	1.9	-	-	6.9
	Not Stated	0	0.0	0.8	0	0.0	0.8	-	-	2.2

Notes

Data released by CIHI may differ from data from other sources due to CIHI's nationally standardized methodology.

Regulated nurses employed in a jurisdiction different from their jurisdiction of registration are excluded to avoid duplication.

Northern territories data may include inter-jurisdictional duplicates.

 $See\ Chapter\ 5\ (Methodological\ Notes)\ for\ more\ information\ regarding\ collection\ and\ comparability\ of\ data.$

Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

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Totals may not sum to 100% due to rounding.

Regulated Nursing Workforce Profile, New Brunswick, 2007

		Regis	stered N	ırses	Licer	nsed Prac Nurses	ctical	Registe	ered Psy Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	7,726			2,734			1		
Sex	Male	334	4.3	5.8	290	10.6	7.0	_	-	22.5
Sex	Female	7,392	95.7	94.2	2,444	89.4	93.0	=	=	77.5
Average Age	Years	44.5			43.2					
	<35 Years	1,463	18.9	20.3	667	24.4	23.6		=	13.4
Age	35-49 Years	3,579	46.3	40.7	1,187	43.4	40.6	=	=	42.2
Breakdown	50 + Years	2,684	34.7	38.9	880	32.2	35.8	_	-	44.3
	Not Stated	0	0.0	< 0.1	0	0.0	< 0.1	_	-	0.1
	Full Time	4,890	63.3	56.6	1,368	50.0	47.2		=	67.3
Employment	Part Time	2,260	29.3	31.8	817	29.9	34.3	_	-	19.8
Status	Casual	576	7.5	10.5	548	20.0	18.0	_	-	12.1
	Employed—Status Unknown	0	0.0	1.1	1	< 0.1	0.5	_	-	0.8
	Hospital	5,217	67.5	62.3	1,435	52.5	44.9	-	-	40.3
	Community Health Agency	881	11.4	14.0	56	2.0	6.7	_	-	25.5
Place of Work	Nursing Home/LTC Facility	804	10.4	10.5	1,133	41.4	39.4	_	-	20.6
	Other Place of Work	824	10.7	12.4	100	3.7	7.6	_	-	12.6
	Not Stated	0	0.0	0.8	10	0.4	1.4	_	-	1.0
Area of	Direct Care	6,913	89.5	87.2	2,640	96.6	97.4	-	-	89.1
Responsibility	Administration/Educ./Research	813	10.5	10.8	84	3.1	1.4	_	-	8.7
responsibility	Not Stated	0	0.0	2.0	10	0.4	1.3	_	-	2.2
	Managerial Positions	900	11.6	7.1	53	1.9	1.3		-	10.9
Position	Staff/Community Health Nurse	6,239	80.8	77.4	2,448	89.5	91.4	_	-	78.7
Fosition	Other Positions	587	7.6	14.3	230	8.4	6.2	_	-	9.7
	Not Stated	0	0.0	1.2	3	0.1	1.1	=	=	0.8
Multiple	Single Employer	7,068	91.5	86.1	2,442	89.3	82.1	-	-	76.3
Employment	Multiple Employers	658	8.5	13.5	292	10.7	17.6	_	-	22.8
Status	Not Stated	0	0.0	0.3	0	0.0	0.2	-	-	0.9
Highest	Diploma	4,162	53.9	61.7	2,734	100.0	100.0	_	_	92.6
Education	Baccalaureate	3,378	43.7	35.5	-	-	-	-	-	7.2
in Nursing	Master's/Doctorate	186	2.4	2.8	-	_	_	-	_	0.2
Discipline	Not Stated	0	0.0	< 0.1		<u> </u>				0.0
Location of	Canadian-Trained	7,613	98.5	91.3	2,727	99.7	97.3	-	-	90.9
Location of Graduation	Internationally Educated	107	1.4	7.9	7	0.3	1.9	-	_	6.9
Graduation	Not Stated	6	0.1	0.8	0	0.0	0.8			2.2

Notes

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Source

Regulated Nursing Database, Canadian Institute for Health Information.

Data are not applicable or do not exist.

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Regulated Nursing Workforce Profile, Quebec, 2007

		Regis	stered N	urses	Licer	nsed Prac Nurses	ctical	Registe	ered Psyc Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	64,955			17,492			-		
Sex	Male	6,040	9.3	5.8	1,424	8.1	7.0	_	_	22.5
Sex	Female	58,915	90.7	94.2	16,068	91.9	93.0	_	I	77.5
Average Age	Years	43.4			42.7			_		
	<35 Years	16,720	25.7	20.3	4,665	26.7	23.6	-	1	13.4
Age	35-49 Years	25,606	39.4	40.7	7,306	41.8	40.6	-	-	42.2
Breakdown	50 + Years	22,629	34.8	38.9	5,521	31.6	35.8	-	-	44.3
	Not Stated	0	0.0	< 0.1	0	0.0	< 0.1	-	-	0.1
	Full Time	36,111	55.6	56.6	6,493	37.1	47.2	-	_	67.3
Employment	Part Time	20,903	32.2	31.8	7,627	43.6	34.3	-	_	19.8
Status	Casual	7,433	11.4	10.5	3,372	19.3	18.0	_	_	12.1
	Employed—Status Unknown	508	0.8	1.1	0	0.0	0.5	_	_	0.8
	Hospital	38,215	58.8	62.3	6,026	34.5	44.9	-	1	40.3
	Community Health Agency	6,642	10.2	14.0	219	1.3	6.7	-	-	25.5
Place of Work	Nursing Home/LTC Facility	9,162	14.1	10.5	8,941	51.1	39.4	-	_	20.6
	Other Place of Work	10,936	16.8	12.4	2,306	13.2	7.6	-	-	12.6
	Not Stated	0	0.0	0.8	0	0.0	1.4	_	I	1.0
Area of	Direct Care	54,862	84.5	87.2	17,371	99.3	97.4	_		89.1
Responsibility	Administration/Educ./Research	8,334	12.8	10.8	121	0.7	1.4	-	_	8.7
rtesponsibility	Not Stated	1,759	2.7	2.0	0	0.0	1.3	_	-	2.2
	Managerial Positions	4,256	6.6	7.1	0	0.0	1.3	=		10.9
Position	Staff/Community Health Nurse	51,149	78.7	77.4	16,819	96.2	91.4	=	=	78.7
rosition	Other Positions	8,634	13.3	14.3	638	3.6	6.2	=	_	9.7
	Not Stated	916	1.4	1.2	35	0.2	1.1	-	_	0.8
Multiple	Single Employer	58,460	90.0	86.1	14,792	84.6	82.1	=		76.3
Employment	Multiple Employers	6,495	10.0	13.5	2,700	15.4	17.6	-	_	22.8
Status	Not Stated	0	0.0	0.3	0	0.0	0.2	-	_	0.9
Highest	Diploma	38,141	58.7	61.7	17,492	100.0	100.0	_	_	92.6
Education	Baccalaureate	25,064	38.6	35.5	-	-	_	-	_	7.2
in Nursing	Master's/Doctorate	1,750	2.7	2.8	_	-	_	_	_	0.2
Discipline	Not Stated	0	0.0	< 0.1	_	_ =	_	_	_	0.0
Location of	Canadian-Trained	63,425	97.6	91.3	16,933	96.8	97.3	_		90.9
Graduation	Internationally Educated	1,528	2.4	7.9	0	0.0	1.9	_	_	6.9
	Not Stated	2	< 0.1	0.8	559	3.2	0.8	_	_	2.2

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Source

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Regulated Nursing Workforce Profile, Ontario, 2007

		Regis	stered N	urses	Licer	nsed Prac Nurses	ctical	Registe	ered Psy Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	90,978			26,126			-		
6	Male	4,124	4.5	5.8	1,583	6.1	7.0	1	-	22.5
Sex	Female	86,854	95.5	94.2	24,543	93.9	93.0	_	-	77.5
Average Age	Years	45.9			44.9			1		
	<35 Years	16,066	17.7	20.3	5,375	20.6	23.6	_	-	13.4
Age	35-49 Years	37,667	41.4	40.7	10,473	40.1	40.6	-	-	42.2
Breakdown	50 + Years	37,244	40.9	38.9	10,277	39.3	35.8	-	-	44.3
	Not Stated	1	< 0.1	< 0.1	1	< 0.1	< 0.1	_	-	0.1
	Full Time	57,403	63.1	56.6	14,357	55.0	47.2	_	-	67.3
Employment	Part Time	26,308	28.9	31.8	9,391	35.9	34.3	-	-	19.8
Status	Casual	7,267	8.0	10.5	2,378	9.1	18.0	-	-	12.1
	Employed—Status Unknown	0	0.0	1.1	0	0.0	0.5		-	0.8
	Hospital	57,720	63.4	62.3	11,611	44.4	44.9	_	-	40.3
	Community Health Agency	14,546	16.0	14.0	2,711	10.4	6.7	=	=	25.5
Place of Work	Nursing Home/LTC Facility	7,923	8.7	10.5	9,365	35.8	39.4	=	=	20.6
	Other Place of Work	9,039	9.9	12.4	1,528	5.8	7.6	_	-	12.6
	Not Stated	1,750	1.9	0.8	911	3.5	1.4	I	=	1.0
Area of	Direct Care	80,320	88.3	87.2	24,922	95.4	97.4	_	-	89.1
Responsibility	Administration/Educ./Research	8,816	9.7	10.8	454	1.7	1.4	=	=	8.7
поороновынту	Not Stated	1,842	2.0	2.0	750	2.9	1.3	-	_	2.2
	Managerial Positions	5,525	6.1	7.1	568	2.2	1.3	_	-	10.9
Position	Staff/Community Health Nurse	68,699	75.5	77.4	22,892	87.6	91.4	_	-	78.7
rosition	Other Positions	15,407	16.9	14.3	2,057	7.9	6.2	_	-	9.7
	Not Stated	1,347	1.5	1.2	609	2.3	1.1	-	-	0.8
Multiple	Single Employer	80,200	88.2	86.1	22,381	85.7	82.1	_	-	76.3
Employment	Multiple Employers	10,772	11.8	13.5	3,745	14.3	17.6	_	-	22.8
Status	Not Stated	6	< 0.1	0.3	0	0.0		_	-	0.9
Highest	Diploma	62,025	68.2	61.7	26,126	100.0	100.0	_	-	92.6
Education	Baccalaureate	26,325	28.9	35.5	_	_	-	_	_	7.2
in Nursing	Master's/Doctorate	2,628	2.9	2.8	-	_	_	_	_	0.2
Discipline	Not Stated	0	0.0	< 0.1	=	_ =	-	=	_ =	0.0
Location of	Canadian-Trained	79,521	87.4	91.3	25,200	96.5	97.3			90.9
Cocation of Graduation	Internationally Educated	11,320	12.4	7.9	91†	†	1.9	_	-	6.9
	Not Stated	137	0.2	0.8	1†	t	0.8	_	_	2.2

Notes

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Regulated Nursing Workforce Profile, Manitoba, 2007

		Regis	stered N	urses	Licer	nsed Prac Nurses	ctical	Registe	ered Psyc Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	10,825			2,671			952		
Sex	Male	616	5.7	5.8	134	5.0	7.0	216	22.7	22.5
Sex	Female	10,209	94.3	94.2	2,537	95.0	93.0	736	77.3	77.5
Average Age	Years	45.9			45.4			46.9		
	<35 Years	1,787	16.5	20.3	555	20.8	23.6	122	12.8	13.4
Age	35-49 Years	4,617	42.7	40.7	1,023	38.3	40.6	408	42.9	42.2
Breakdown	50 + Years	4,390	40.6	38.9	1,093	40.9	35.8	422	44.3	44.3
	Not Stated	31	0.3	< 0.1	0	0.0	< 0.1	0	0.0	0.1
	Full Time	5,146	47.5	56.6	873	32.7	47.2	599	62.9	67.3
Employment	Part Time	4,867	45.0	31.8	1,438	53.8	34.3	283	29.7	19.8
Status	Casual	788	7.3	10.5	274	10.3	18.0	68	7.1	12.1
	Employed – Status Unknown	24	0.2	1.1	86	3.2	0.5	2	0.2	0.8
	Hospital	6,511	60.1	62.3	1,081	40.5	44.9	224	23.5	40.3
	Community Health Agency	1,679	15.5	14.0	266	10.0	6.7	387	40.7	25.5
Place of Work	Nursing Home/LTC Facility	1,267	11.7	10.5	1,147	42.9	39.4	250	26.3	20.6
	Other Place of Work	1,320	12.2	12.4	163	6.1	7.6	89	9.3	12.6
	Not Stated	48	0.4	0.8	14	0.5	1.4	2	0.2	1.0
	Direct Care	9,336	86.2	87.2	2,644	99.0	97.4	815	85.6	89.1
Area of	Administration/Educ./Research	1,452	13.4	10.8	27	1.0	1.4	131	13.8	8.7
Responsibility	Not Stated	37	0.3	2.0	0	0.0	1.3	6	0.6	2.2
	Managerial Positions	842*	7.8*	7.1	46	1.7	1.3	105	11.0	10.9
Position	Staff/Community Health Nurse	8,148	75.3	77.4	2,519	94.3	91.4	736	77.3	78.7
Position	Other Positions	1,782	16.5	14.3	106	4.0	6.2	109	11.4	9.7
	Not Stated	53	0.5	1.2	0	0.0	1.1	2	0.2	0.8
Multiple	Single Employer	9,379	86.6	86.1	1,937	72.5	82.1	795	83.5	76.3
Employment	Multiple Employers	1,446	13.4	13.5	734	27.5	17.6	157	16.5	22.8
Status	Not Stated	0	0.0	0.3	0	0.0	0.2	0	0.0	0.9
Highest	Diploma	6,905	63.8	61.7	2,671	100.0	100.0	787	82.7	92.6
Education	Baccalaureate	3,668	33.9	35.5	_	-	-	165	17.3	7.2
in Nursing	Master's/Doctorate	252	2.3	2.8	_	-	_	0	0.0	0.2
Discipline	Not Stated	0	0.0	< 0.1	-	-	_	0	0.0	0.0
La cadia.	Canadian-Trained	10,103	93.3	91.3	2,599	97.3	97.3	942	98.9	90.9
Location of Graduation	Internationally Educated	722	6.7	7.9	71	2.7	1.9	10	1.1	6.9
Graduation	Not Stated	0	0.0	0.8	1	< 0.1	0.8	0	0.0	2.2

Notes

Source

^{*} Please note that in November 2008 an errata was released for *Regulated Nurses: Trends, 2003 to 2007*. The pdf version of the report has been updated and therefore will not match the hard copy of the report.

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Regulated Nursing Workforce Profile, Saskatchewan, 2007

		Regis	stered N	urses	Licer	nsed Prac Nurses	ctical	Registe	ered Psyc Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	8,669			2,381			880		
Sex	Male	322	3.7	5.8	76	3.2	7.0	133	15.1	22.5
Sex	Female	8,347	96.3	94.2	2,305	96.8	93.0	747	84.9	77.5
Average Age	Years	46.0			43.5			47.6		
	<35 Years	1,529	17.6	20.3	670	28.1	23.6	58	6.6	13.4
Age	35-49 Years	3,440	39.7	40.7	812	34.1	40.6	458	52.0	42.2
Breakdown	50 + Years	3,700	42.7	38.9	899	37.8	35.8	359	40.8	44.3
	Not Stated	0	0.0	< 0.1	0	0.0	< 0.1	5	0.6	0.1
	Full Time	4,845	55.9	56.6	1,178	49.5	47.2	698	79.3	67.3
Employment	Part Time	2,783	32.1	31.8	62†	t	34.3	120	13.6	19.8
Status	Casual	1,024	11.8	10.5	427	17.9	18.0	49	5.6	12.1
	Employed—Status Unknown	17	0.2	1.1	15†	t	0.5	13	1.5	0.8
	Hospital	5,074	58.5	62.3	1,606	67.5	44.9	221	25.1	40.3
	Community Health Agency	1,600	18.5	14.0	195	8.2	6.7	172	19.5	25.5
Place of Work	Nursing Home/LTC Facility	947	10.9	10.5	483	20.3	39.4	334	38.0	20.6
	Other Place of Work	1,046	12.1	12.4	95	4.0	7.6	139	15.8	12.6
	Not Stated	2	< 0.1	0.8	2	0.1	1.4	14	1.6	1.0
A	Direct Care	7,666	88.4	87.2	2,356	99.0	97.4	800	90.9	89.1
Area of Responsibility	Administration/Educ./Research	954	11.0	10.8	2†	t	1.4	62	7.0	8.7
Nesponsibility	Not Stated	49	0.6	2.0	t	t	1.3	18	2.0	2.2
	Managerial Positions	734	8.5	7.1	15	0.6	1.3	99	11.3	10.9
Position	Staff/Community Health Nurse	6,957	80.3	77.4	2,188	91.9	91.4	668	75.9	78.7
Position	Other Positions	976	11.3	14.3	176	7.4	6.2	98	11.1	9.7
	Not Stated	2	< 0.1	1.2	2	0.1	1.1	15	1.7	0.8
Multiple	Single Employer	7,013	80.9	86.1	1,816	76.3	82.1	705	80.1	76.3
Employment	Multiple Employers	1,654	19.1	13.5	537	22.6	17.6	174	19.8	22.8
Status	Not Stated	2	< 0.1	0.3	28	1.2	0.2	1	0.1	0.9
Highest	Diploma	5,497	63.4	61.7	2,381	100.0	100.0	861	97.8	92.6
Education	Baccalaureate	3,005	34.7	35.5	-	-	-	19	2.2	7.2
in Nursing	Master's/Doctorate	163	1.9	2.8	_	-	_	0	0.0	0.2
Discipline	Not Stated	4	< 0.1	< 0.1				0	0.0	0.0
	Canadian-Trained	8,341	96.2	91.3	2,349	98.7	97.3	870	98.9	90.9
Location of Graduation	Internationally Educated	240	2.8	7.9	32	1.3	1.9	10	1.1	6.9
Graduation	Not Stated	88	1.0	0.8	0	0.0	0.8	0	0.0	2.2

Notes

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Source

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Data are not applicable or do not exist.

[†] Digit suppressed to ensure confidentiality.

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Regulated Nursing Workforce Profile, Alberta, 2007

		Regis	tered N	urses	Licer	nsed Prac Nurses	ctical	Registe	ered Psy Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	27,527			5,986			1,158		
Sex	Male	1,161	4.2	5.8	268	4.5	7.0	299	25.8	22.5
Sex	Female	26,366	95.8	94.2	5,718	95.5	93.0	859	74.2	77.5
Average Age	Years	44.6			43.3			47.2		
	<35 Years	6,398	23.2	20.3	1,745	29.2	23.6	158	13.6	13.4
Age	35-49 Years	10,666	38.7	40.7	2,078	34.7	40.6	474	40.9	42.2
Breakdown	50 + Years	10,463	38.0	38.9	2,163	36.1	35.8	526	45.4	44.3
	Not Stated	0	0.0	< 0.1	0	0.0	< 0.1	0	0.0	0.1
	Full Time	10,711	38.9	56.6	2,454	41.0	47.2	664	57.3	67.3
Employment	Part Time	12,118	44.0	31.8	2,674	44.7	34.3	377	32.6	19.8
Status	Casual	3,700	13.4	10.5	858	14.3	18.0	114	9.8	12.1
	Employed—Status Unknown	998	3.6	1.1	0	0.0	0.5	3	0.3	0.8
	Hospital	18,005	65.4	62.3	3,385	56.5	44.9	665	57.4	40.3
	Community Health Agency	3,866	14.0	14.0	546	9.1	6.7	259	22.4	25.5
Place of Work	Nursing Home/LTC Facility	2,035	7.4	10.5	1,555	26.0	39.4	120	10.4	20.6
	Other Place of Work	3,593	13.1	12.4	500	8.4	7.6	113	9.8	12.6
	Not Stated	28	0.1	0.8	0	0.0	1.4	1	0.1	1.0
A	Direct Care	24,132	87.7	87.2	5,883	98.3	97.4	1,051	90.8	89.1
Area of Responsibility	Administration/Educ./Research	2,303	8.4	10.8	103	1.7	1.4	101	8.7	8.7
riesponsibility	Not Stated	1,092	4.0	2.0	0	0.0	1.3	6	0.5	2.2
	Managerial Positions	1,843	6.7	7.1	6†	†	1.3	88	7.6	10.9
Position	Staff/Community Health Nurse	21,814	79.2	77.4	5,560	92.9	91.4	944	81.5	78.7
Position	Other Positions	3,822	13.9	14.3	35†	†	6.2	120	10.4	9.7
	Not Stated	48	0.2	1.2	0	0.0	1.1	6	0.5	0.8
Multiple	Single Employer	22,629	82.2	86.1	4,562	76.2	82.1	952	82.2	76.3
Employment	Multiple Employers	4,876	17.7	13.5	1,424	23.8	17.6	206	17.8	22.8
Status	Not Stated	22	0.1	0.3	0	0.0	0.2	0	0.0	0.9
Highest	Diploma	15,019	54.6	61.7	5,986	100.0	100.0	1,133	97.8	92.6
Education	Baccalaureate	11,715	42.6	35.5	=	=	_	2†	†	7.2
in Nursing	Master's/Doctorate	781	2.8	2.8	=	=	_	*	*	0.2
Discipline	Not Stated	12	< 0.1	< 0.1		_	_	0	0.0	0.0
Location of	Canadian-Trained	24,628	89.5	91.3	5,891	98.4	97.3	1,062	91.7	90.9
Location of Graduation	Internationally Educated	1,259	4.6	7.9	95	1.6	1.9	96	8.3	6.9
Graduation	Not Stated	1,640	6.0	0.8	0	0.0	0.8	0	0.0	2.2

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Source

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Regulated Nursing Workforce Profile, British Columbia, 2007

		Regis	stered N	urses	Licer	nsed Prac Nurses	ctical	Registe	ered Psyc Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	30,059			5,791			2,134		
Sex	Male	1,649	5.5	5.8	552	9.5	7.0	504	23.6	22.5
Sex	Female	28,410	94.5	94.2	5,239	90.5	93.0	1,630	76.4	77.5
Average Age	Years	46.2			42.3			47.2		
	<35 Years	5,350	17.8	20.3	1,634	28.2	23.6	349	16.4	13.4
Age	35-49 Years	11,565	38.5	40.7	2,360	40.8	40.6	820	38.4	42.2
Breakdown	50 + Years	13,144	43.7	38.9	1,797	31.0	35.8	965	45.2	44.3
	Not Stated	0	0.0	< 0.1	0	0.0	< 0.1	0	0.0	0.1
	Full Time	16,499	54.9	56.6	2,737	47.3	47.2	1,487	69.7	67.3
Employment	Part Time	8,762	29.1	31.8	112	1.9	34.3	235	11.0	19.8
Status	Casual	4,617	15.4	10.5	2,857	49.3	18.0	390	18.3	12.1
	Employed – Status Unknown	181	0.6	1.1	85	1.5	0.5	22	1.0	0.8
	Hospital	18,717	62.3	62.3	3,199	55.2	44.9	957	44.8	40.3
	Community Health Agency	4,504	15.0	14.0	214	3.7	6.7	489	22.9	25.5
Place of Work	Nursing Home/LTC Facility	3,161	10.5	10.5	2,045	35.3	39.4	349	16.4	20.6
	Other Place of Work	3,449	11.5	12.4	326	5.6	7.6	306	14.3	12.6
	Not Stated	228	0.8	0.8	7	0.1	1.4	33	1.5	1.0
Area of	Direct Care	26,696	88.8	87.2	5,706	98.5	97.4	1,897	88.9	89.1
Responsibility	Administration/Educ./Research	3,185	10.6	10.8	77	1.3	1.4	152	7.1	8.7
поороновынту	Not Stated	178	0.6	2.0	8	0.1	1.3	85	4.0	2.2
	Managerial Positions	2,343	7.8	7.1	63	1.1	1.3	264	12.4	10.9
Position	Staff/Community Health Nurse	23,391	77.8	77.4	5,319	91.8	91.4	1,684	78.9	78.7
rosition	Other Positions	3,772	12.5	14.3	404	7.0	6.2	169	7.9	9.7
	Not Stated	553	1.8	1.2	5	0.1	1.1	17	0.8	0.8
Multiple	Single Employer	22,899	76.2	86.1	4,010	69.2	82.1	1,458	68.3	76.3
Employment	Multiple Employers	7,160	23.8	13.5	1,738	30.0	17.6	633	29.7	22.8
Status	Not Stated	0	0.0	0.3	43	0.7	0.2	43	2.0	0.9
Highest	Diploma	16,653	55.4	61.7	5,791	100.0	100.0	1,966	92.1	92.6
Education	Baccalaureate	12,332	41.0	35.5	-	_	-	16†	t	7.2
in Nursing	Master's/Doctorate	1,069	3.6	2.8	_	_	_	t	t	0.2
Discipline	Not Stated	5	< 0.1	< 0.1	=	_ =	-	0	0.0	0.0
Location of	Canadian-Trained	25,247	84.0	91.3	5,592	96.6	97.3	1,786	83.7	90.9
Graduation	Internationally Educated	4,686	15.6	7.9	189	3.3	1.9	235	11.0	6.9
	Not Stated	126	0.4	0.8	10	0.2	0.8	113	5.3	2.2

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Source

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Regulated Nursing Workforce Profile, Yukon Territory, 2007

		Regis	stered N	urses	Licer	nsed Prac	ctical	Registe	ered Psyc Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	322			59			1		
Sex	Male	31	9.6	5.8	*	*	7.0	1	-	22.5
Sex	Female	291	90.4	94.2	5†	†	93.0	=	=	77.5
Average Age	Years	45.6			48.3					
	<35 Years	61	18.9	20.3	†	†	23.6	_	_	13.4
Age	35-49 Years	129	40.1	40.7	29	49.2	40.6	=	=	42.2
Breakdown	50 + Years	132	41.0	38.9	2†	†	35.8	-	-	44.3
	Not Stated	0	0.0	< 0.1	2	3.4	< 0.1	_	-	0.1
	Full Time	150	46.6	56.6	37	62.7	47.2	_	_	67.3
Employment	Part Time	89	27.6	31.8	8	13.6	34.3	_	-	19.8
Status	Casual	79	24.5	10.5	14	23.7	18.0	_	_	12.1
	Employed—Status Unknown	4	1.2	1.1	0	0.0	0.5	_	-	0.8
	Hospital	145	45.0	62.3	14	23.7	44.9	_	_	40.3
	Community Health Agency	108	33.5	14.0	†	†	6.7	_	-	25.5
Place of Work	Nursing Home/LTC Facility	28	8.7	10.5	36	61.0	39.4	=	=	20.6
	Other Place of Work	41	12.7	12.4	t	t	7.6	=	=	12.6
	Not Stated	0	0.0	0.8	0	0.0	1.4	=	=	1.0
	Direct Care	279	86.6	87.2	57	96.6	97.4	=	_	89.1
Area of	Administration/Educ./Research	4†	t	10.8	†	t	1.4	_	=	8.7
Responsibility	Not Stated	t	t	2.0	t	t	1.3	=	=	2.2
	Managerial Positions	29	9.0	7.1	0	0.0	1.3	_	-	10.9
Position	Staff/Community Health Nurse	239	74.2	77.4	0	0.0	91.4	_	=	78.7
FUSITION	Other Positions	54	16.8	14.3	0	0.0	6.2	_	=	9.7
	Not Stated	0	0.0	1.2	59	100.0	1.1	-	-	0.8
Multiple	Single Employer	241	74.8	86.1	51	86.4	82.1	1	-	76.3
Employment	Multiple Employers	78	24.2	13.5	8	13.6	17.6	_	-	22.8
Status	Not Stated	3	0.9	0.3	0	0.0	0.2	_	-	0.9
Highest	Diploma	156	48.4	61.7	59	100.0	100.0	_	_	92.6
Education	Baccalaureate	158	49.1	35.5	-	_	_	_	-	7.2
in Nursing	Master's/Doctorate	8	2.5	2.8	-	=	_	=	-	0.2
Discipline	Not Stated	0	0.0	< 0.1	-	=	_	=	=	0.0
	Canadian-Trained	296	91.9	91.3	59	100.0	97.3	-	-	90.9
Location of Graduation	Internationally Educated	25	7.8	7.9	0	0.0	1.9	=	=	6.9
Graduation	Not Stated	1	0.3	0.8	0	0.0	0.8	=	=	2.2

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Regulated Nursing Workforce Profile, Northwest Territories and Nunavut, 2007

		Regis	stered N	urses	Licer	nsed Prac Nurses	ctical	Registe	ered Psyc Nurses	chiatric
		RN	%	Canada %	LPN	%	Canada %	RPN	%	Canada %
Employed in Nu	rsing Workforce	1,048			88			1		
Sex	Male	93	8.9	5.8	1†	t	7.0	1	-	22.5
Sex	Female	955	91.1	94.2	7†	†	93.0	=		77.5
Average Age	Years	44.6			45.6					
	<35 Years	262	25.0	20.3	1†	†	23.6			13.4
Age	35-49 Years	382	36.5	40.7	43	48.9	40.6	=	=	42.2
Breakdown	50 + Years	404	38.5	38.9	3†	†	35.8	_	_	44.3
	Not Stated	0	0.0	< 0.1	0	0.0	< 0.1	_	I	0.1
	Full Time	0	0.0	56.6	72	81.8	47.2			67.3
Employment	Part Time	0	0.0	31.8	*	*	34.3	=	=	19.8
Status	Casual	0	0.0	10.5	13	14.8	18.0	_	=	12.1
	Employed—Status Unknown	1,048	100.0	1.1	†	†	0.5	=		0.8
	Hospital	364	34.7	62.3	36	40.9	44.9			40.3
	Community Health Agency	450	42.9	14.0	1†	t	6.7	=	_	25.5
Place of Work	Nursing Home/LTC Facility	19	1.8	10.5	24	27.3	39.4	_	=	20.6
	Other Place of Work	193	18.4	12.4	1†	†	7.6	_	=	12.6
	Not Stated	22	2.1	0.8	0	0.0	1.4	_	I	1.0
Area of	Direct Care	913	87.1	87.2	88	100.0	97.4	_	_	89.1
Responsibility	Administration/Educ./Research	10†	†	10.8	0	0.0	1.4	=	=	8.7
поороновынту	Not Stated	3†	†	2.0	0	0.0	1.3	_	-	2.2
	Managerial Positions	89	8.5	7.1	†	t	1.3	_	_	10.9
Position	Staff/Community Health Nurse	766	73.1	77.4	85	96.6	91.4	_	_	78.7
Osition	Other Positions	162	15.5	14.3	†	t	6.2	_	_	9.7
	Not Stated	31	3.0	1.2	0	0.0	1.1	_	_	0.8
Multiple	Single Employer	92	8.8	86.1	0	0.0	82.1	_	_	76.3
Employment	Multiple Employers	123	11.7	13.5	0	0.0	17.6	_	_	22.8
Status	Not Stated	833	79.5	0.3	88	100.0	0.2	_	_	0.9
Highest	Diploma	686	65.5	61.7	88	100.0	100.0	_	_	92.6
Education	Baccalaureate	344	32.8	35.5	-	_	-	-	_	7.2
in Nursing	Master's/Doctorate	18	1.7	2.8	_	=	-	=	=	0.2
Discipline	Not Stated	0	0.0	< 0.1	_	_	_	_	_	0.0
Location of	Canadian-Trained	946	90.3	91.3	8†	†	97.3	=	=	90.9
Location of Graduation	Internationally Educated	100	9.5	7.9	*	*	1.9	-	_	6.9
Graduation	Not Stated	2	0.2	0.8	t	t	0.8	_	_	2.2

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Regulated Nursing Workforce Profile, Canada, 2007

		Registered Nurses Licensed Practical Nurses		Registered Psychiatric Nurses			
		RN	%	LPN	%	RPN	%
Employed in Nursing Workforce		257,961		69,709		5124	
Sex	Male	15,002	5.8	4,891	7.0	1,152	22.5
	Female	242,959	94.2	64,818	93.0	3,972	77.5
Average Age	Years	45.0		43.9		47.2	
	<35 Years	52,480	20.3	16,432	23.6	687	13.4
Age	35-49 Years	104,973	40.7	28,305	40.6	2,160	42.2
Breakdown	50 + Years	100,472	38.9	24,969	35.8	2,272	44.3
	Not Stated	36	< 0.1	3	< 0.1	5	0.1
	Full Time	146,052	56.6	32,909	47.2	3,448	67.3
Employment	Part Time	81,929	31.8	23,927	34.3	1,015	19.8
Status	Casual	27,197	10.5	12,535	18.0	621	12.1
	Employed—Status Unknown	2,783	1.1	338	0.5	40	0.8
Place of Work	Hospital	160,653	62.3	31,276	44.9	2,067	40.3
	Community Health Agency	36,024	14.0	4,665	6.7	1,307	25.5
	Nursing Home/LTC Facility	27,111	10.5	27,477	39.4	1,053	20.6
	Other Place of Work	32,087	12.4	5,305	7.6	647	12.6
	Not Stated	2,086	0.8	986	1.4	50	1.0
A of	Direct Care	224,964	87.2	67,866	97.4	4,563	89.1
Area of Responsibility	Administration/Educ./Research	27,768	10.8	946	1.4	446	8.7
Responsibility	Not Stated	5,229	2.0	897	1.3	115	2.2
	Managerial Positions	18,286	7.1	895	1.3	556	10.9
Position	Staff/Community Health Nurse	199,756	77.4	63,718	91.4	4,032	78.7
rosition	Other Positions	36,950	14.3	4,308	6.2	496	9.7
	Not Stated	2,969	1.2	788	1.1	40	0.8
Multiple	Single Employer	222,155	86.1	57,249	82.1	3,910	76.3
Employment	Multiple Employers	34,934	13.5	12,301	17.6	1,170	22.8
Status	Not Stated	872	0.3	159	0.2	44	0.9
Highest Education in Nursing Discipline	Diploma	159,125	61.7	69,709	100.0	4,747	92.6
	Baccalaureate	91,509	35.5	-	=	368	7.2
	Master's/Doctorate	7,302	2.8	=	=	9	0.2
	Not Stated	25	< 0.1	=	=	0	0.0
l di d	Canadian-Trained	235,636	91.3	67,802	97.3	4,660	90.9
Location of Graduation	Internationally Educated	20,319	7.9	1,322	1.9	351	6.9
diadation	Not Stated	2,006	0.8	585	0.8	113	2.2

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Source

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Appendix B Regulated Nursing Contact Information

Provincial/Territorial Regulatory Authorities

Newfoundland and Labrador

College of Licensed Practical Nurses of Newfoundland and Labrador

9 Paton Street

St. John's, Newfoundland and Labrador A1B 4S8

Website: www.clpnnl.ca

Association of Registered Nurses of Newfoundland and Labrador

55 Military Road, PO Box 6116

St. John's, Newfoundland and Labrador A1C 5X8

Website: www.arnnl.nf.ca

Prince Edward Island

Prince Edward Island Licensed Practical Nurses Registration Board

161 St. Peters Road

PO Box 3235

Charlottetown, Prince Edward Island C1A 7N9

Website: www.gov.pe.ca

Association of Registered Nurses of Prince Edward Island

53 Grafton Street

Charlottetown, Prince Edward Island C1A 1K8

Website: www.arnpei.ca

Nova Scotia

College of Licensed Practical Nurses of Nova Scotia

Suite 1212, Cogswell Tower 2000 Barrington Street

Halifax, Nova Scotia B3J 3K1

Website: www.clpnns.ca

College of Registered Nurses of Nova Scotia

Suite 600, Barrington Tower 1894 Barrington Street

Halifax, Nova Scotia B3J 2A8

Website: www.crnns.ca

New Brunswick

Association of New Brunswick Licensed Practical Nurses/Association des infirmier(ère)s auxiliaires autorisé(e)s du Nouveau Brunswick

384 Smythe Street

Fredericton, New Brunswick E3B 3E4

Website: www.anblpn.ca

Nurses Association of New Brunswick/Association des infirmières et infirmiers du Nouveau Brunswick

165 Regent Street

Fredericton, New Brunswick E3B 7B4

Website: www.nanb.nb.ca

Quebec

Ordre des infirmières et infirmiers auxiliaires du Québec

531 rue Sherbrooke Est Montréal, Quebec H2L 1K2 Website: www.oiiaq.org

Ordre des infirmières et infirmiers du Québec

4200 boulevard Dorchester ouest Montréal, Quebec H3Z 1V4

Website: www.oiiq.org

Ontarioxiii

College of Nurses of Ontario/Ordre des infirmières et infirmiers de l'Ontario

101 Davenport Road Toronto, Ontario M5R 3P1

Website: www.cno.org

Manitoba

College of Licensed Practical Nurses of Manitoba

463 St. Anne's Road Winnipeg, Manitoba R2M 3C9

Website: www.clpnm.ca

College of Registered Nurses of Manitoba

890 Pembina Highway

Winnipeg, Manitoba R3M 2M8 Website: www.crnm.mb.ca

College of Registered Psychiatric Nurses of Manitoba

1854 Portage Avenue

Winnipeg, Manitoba R3J 0G9 Website: www.crpnm.mb.ca

xiii. The College of Nurses of Ontario is the provincial regulatory authority for both licensed practical nurses and registered nurses. In Ontario, licensed practical nurses are termed *registered practical nurses*.

Saskatchewan

Saskatchewan Association of Licensed Practical Nurses

100–2216 Lorne Street Regina, Saskatchewan S4P 2M7

Website: www.salpn.com

Saskatchewan Registered Nurses' Association

2066 Retallack Street

Regina, Saskatchewan S4T 7X5

Website: www.srna.org

Registered Psychiatric Nurses Association of Saskatchewan

2055 Lorne Street

Regina, Saskatchewan S4P 2M4

Website: www.rpnas.com

Alberta

College of Licensed Practical Nurses of Alberta

St. Albert Trail Place 13163–146 Street

Edmonton, Alberta T5L 4S8 Website: www.clpna.com

College and Association of Registered Nurses of Alberta

11620-168 Street

Edmonton, Alberta T5M 4A6 Website: www.nurses.ab.ca

College of Registered Psychiatric Nurses of Alberta

201–9711 45th Avenue Edmonton, Alberta T6E 5V8 Website: www.crpna.ab.ca

website. www.cipiia.ab.ca

British Columbia

College of Licensed Practical Nurses of British Columbia

3480 Gilmore Way, Suite 260

Burnaby, British Columbia V5G 4Y1

Website: www.clpnbc.org

College of Registered Nurses of British Columbia

2855 Arbutus Street

Vancouver, British Columbia V6J 3Y8

Website: www.crnbc.ca

College of Registered Psychiatric Nurses of British Columbia

307–2502 Saint Johns Street

Port Moody, British Columbia V3H 2B4

Website: www.crpnbc.ca

Yukon

Registrar of Licensed Practical Nurses

Government of Yukon

Box 2703

Whitehorse, Yukon Y1A 2C6

Website: www.gov.yk.ca

Yukon Registered Nurses Association

204-4133 Fourth Avenue

Whitehorse, Yukon Y1A 1H8

Website: www.yrna.ca

Northwest Territories and Nunavut

Registrar of Licensed Practical Nurses

Department of Health and Social Services, Government of Northwest Territories Box 1320

Yellowknife, Northwest Territories X1A 2L9

Website: www.hlthss.gov.nt.ca

Registered Nurses Association of the Northwest Territories and Nunavut

Box 2757

483 Range Lake Road

Yellowknife, Northwest Territories X1A 2R1

Website: www.rnantnu.ca

Other Nursing Associations

Practical Nurses Canada

55 St. Clair Avenue West, Suite 255

Toronto, Ontario M4V 2Y7 Website: www.pncanada.ca

Canadian Council for Practical Nurse Regulators/Conseil Canadien de Réglementation des soins infirmiers auxiliaires

Website: www.ccpnr.ca

Canadian Nurses Association/Association des infirmières et infirmiers du Canada

50 Driveway

Ottawa, Ontario K2P 1E2 Website: www.cna-aiic.ca

Registered Psychiatric Nurses of Canada

Website: www.rpnc.ca

Canadian Association of Schools of Nursing/Association canadienne des écoles de sciences infirmières

99 Fifth Avenue, Suite 15 Ottawa, Ontario K1S 5K4 Website: www.casn.ca

Canadian Federation of Nurses Unions/Fédération canadienne des syndicats d'infirmières et d'infirmiers

2841 Riverside Drive Ottawa, Ontario K1V 8X7 Website: www.nursesunions.ca

Aboriginal Nurses Association of Canada

56 Sparks Street, Suite 502 Ottawa, Ontario K1P 5A7 Website: www.anac.on.ca

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