



July 25, 2007

Giving Birth in Canada: Regional Trends From 2001–2002 to 2005–2006

Introduction

This report provides an update to selected indicators previously featured in *Giving Birth in Canada: A Regional Profile*.¹ These indicators were selected to describe the birthing process in Canada, and include rates of epidural use, assisted deliveries, Caesarean sections (C-sections) and low birth weight. The objective of this report is to present indicator results for the patient's region of residence that can be compared over time. A summary of these results at the provincial/territorial and regional levels is described.

Highlights

- Total, primary and repeat C-sections increased between 2001–2002 and 2005–2006. In 2005–2006, Canadian estimates for the total and primary C-section rates were 26.3% and 18.6%, respectively. Of those women delivering in 2005–2006 who had a previous C-section, 81.9% had a repeat C-section.
- The average age of Canadian women who had a C-section in 2005–2006 was significantly higher than the average age of women who had a vaginal delivery (30.4 versus 28.7 years).
- The overall assisted delivery rate decreased between 2001–2002 and 2005–2006. Vacuum extraction was used approximately twice as frequently as forceps. Canadian estimates for the overall, vacuum extraction and forceps-assisted rates among vaginal deliveries in 2005–2006 were 14.3%, 9.8% and 3.7%, respectively.
- Epidural rates increased between 2001–2002 and 2005–2006. Among all provinces and territories in 2005–2006, the rate of epidural use among vaginal and all deliveries was 53.7% and 47.9%, respectively. The highest provincial rates were observed in Quebec and Ontario.

- Using birth registration data from Statistics Canada, population-based low birth weight rates in Canada declined from 1997 to 1999, then began to increase as of 2002. More recent in-hospitalization data indicate that the upward trend continued beyond 2004. The in-hospitalization low birth weight rate in 2005–2006 was 6.1%, while the population-based low birth weight rate in 2004 was 5.9%.
- Regional and provincial/territorial variation in rates was observed for each of the indicators presented in this report.

The Fine Print

This section provides a brief overview of the methodology used in this report and highlights key limitations of the data. A complete description of data sources, methodology and data limitations of this report is provided in Appendix A.

- Indicator definitions were based on the original *Giving Birth in Canada* report,¹ with updates and revisions for the enhanced Canadian version of International Statistical Classification of Diseases and Related Health Problems, 10th Revision, Canada (ICD-10-CA) and Canadian Classification of Health Interventions (CCI). Detailed indicator definitions are provided in the [Technical Notes](#) document.
- Data for the tables in Appendix B were sourced from acute inpatient hospital records from the Discharge Abstract Database (DAD) and Hospital Morbidity Database (HMDb) maintained by the Canadian Institute for Health Information (CIHI). Population-based low birth weight rates from 1997 to 2004 were sourced from the Canadian Vital Statistics Birth Database maintained by Statistics Canada.
- This report presents data on the basis of a patient's place of residence, which may differ from the place of hospitalization. Results are presented at the regional level for regions with a population of 75,000 or more (termed "reportable region") and at the provincial/territorial level.
- ICD-10-CA and CCI systems of coding diagnoses and interventions came into effect in 2001–2002, and by April 1, 2004, had been adopted by all provinces and territories, with the exception of Quebec, which continued to use the International Statistical Classification of Diseases, Injuries, and Causes of Death, Ninth Revision (ICD-9) and Canadian Classification of Diagnostic, Therapeutic and Surgical Procedures (CCP) coding classification system.
- Results for this report were restricted to those provinces and territories that had fully implemented the ICD-10-CA and CCI coding classification system between 2001–2002 and 2005–2006. The exception was Quebec, which maintained the ICD-9 and CCP coding classification system during this period.
- To facilitate comparisons over time, data from ICD-10-CA and CCI provinces and territories and Quebec were combined for 2002–2003 to 2005–2006. The following provinces and territories adopted the ICD-10-CA and CCI coding classification system in 2001–2002: Newfoundland and Labrador, Prince Edward Island, Nova Scotia, British Columbia and Yukon Territory; in 2002–2003: Ontario, Saskatchewan, Alberta, the Northwest Territories and Nunavut; in 2003–2004: New Brunswick; in 2004–2005: Manitoba.
- Among reportable regions, provinces and territories using the ICD-10-CA and CCI coding classification system, data were suppressed due to rate instability or data quality issues that were known to either under- or overestimate the true rate.

Background

This report provides an update to the indicators that were previously presented in the 2004 *Giving Birth in Canada* report.¹ These indicators provide valuable information on various aspects of the birthing process in Canada. Epidural analgesia, which is reported to be the most effective form of pain relief during labour,² is the most frequently reported form of pain relief in Canada,¹ the United States,³ England⁴ and Australia.⁵ Obstetric forceps and vacuum extractors can be used to assist in deliveries where non-reassuring fetal status and inadequate progress during labour is observed.⁶ However, in many countries, the rate of instrument-assisted deliveries is actually quite low, and forceps use in particular appears to be in decline.^{7, 8, 9} In contrast, C-section rates have been rising steadily in many developed countries,^{1, 4, 5, 7} despite the recommendation by the World Health Organisation (WHO) that no more than 15% of all deliveries be performed by C-section.¹⁰ The high rates that have been observed in many countries¹¹ are of concern, since this procedure is not without risk to the mother¹² and baby¹³ and is associated with increased health care costs.¹⁴ Finally, data on low birth weight babies (defined by the WHO as babies with weight at birth of less than 2,500 grams or 5.5 pounds)¹⁵ are provided. The rate of babies born with a low birth weight has long been used as an indicator of public health, since such babies are at increased risk for infant mortality and long-term morbidity.^{16, 17}

Results

Comprehensive results at the regional and provincial/territorial levels are provided in 12 indicator-specific tables in Appendix B. The following sections highlight some key results and summarize trends across provinces and territories to facilitate temporal and international comparisons.

1.1. Epidural Indicators

In 2005–2006, Canadian estimates for epidural rates among vaginal and all deliveries were 53.7% and 47.9%, respectively.

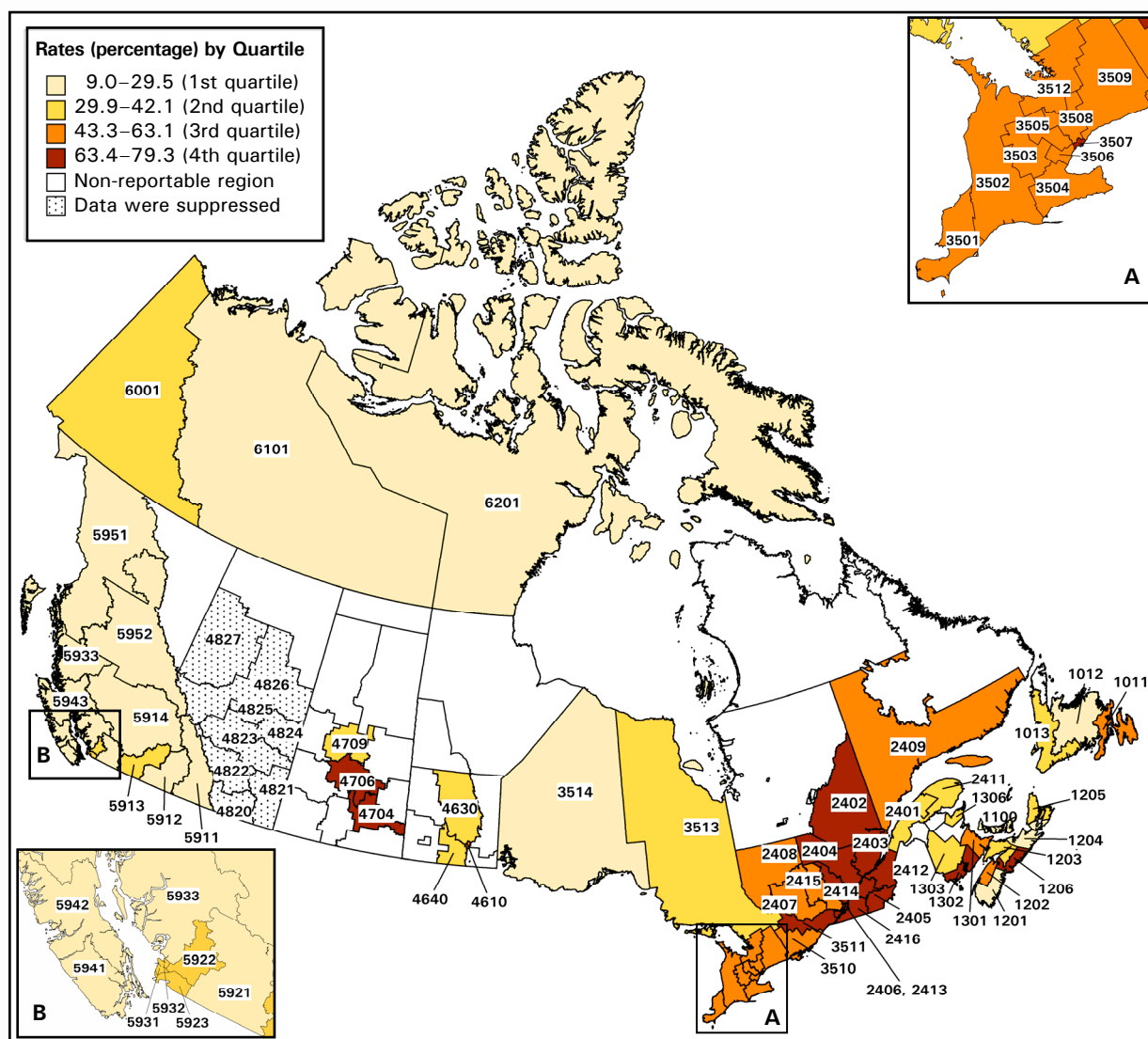
Among reportable regions in 2005–2006, epidural rates among vaginal deliveries ranged from 9.0% in Central Newfoundland and Labrador (region 1012) and 10.3% in North Vancouver Island (region 5943) to 77.5% in Capitale nationale, Quebec (region 2403) and 79.3% in Lanaudière, Quebec (region 2414). Figure 1 depicts this variation and highlights those regions with the lowest (1st quartile) and highest rates (4th quartile). Regions belonging to the highest quartile (63.4% to 79.3%) were mainly from Quebec and from the regions of Toronto Central (region 3507) and Champlain (region 3511) in Ontario. High rates were also observed in Nova Scotia (Halifax, region 1206), New Brunswick (Saint John, region 1302) and Saskatchewan (Regina, region 4704 and Saskatoon, region 4706). In contrast, some of the lowest rates were observed in British Columbia and Newfoundland and Labrador.

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At the provincial level, epidural rates among vaginal deliveries ranged from 24.7% in Prince Edward Island and 27.9% in B.C. to 56.1% in Ontario and 68.4% in Quebec. Among the territories, rates ranged from 9.0% in Nunavut to 32.4% in the Yukon Territory. Similar trends at the regional and provincial/territorial levels were observed for epidural rates among all deliveries. Further details are provided in Tables B-1 and B-2.

Figure 1. Epidural Rates Among Vaginal Deliveries by Reportable Health Region, Canada, 2005–2006

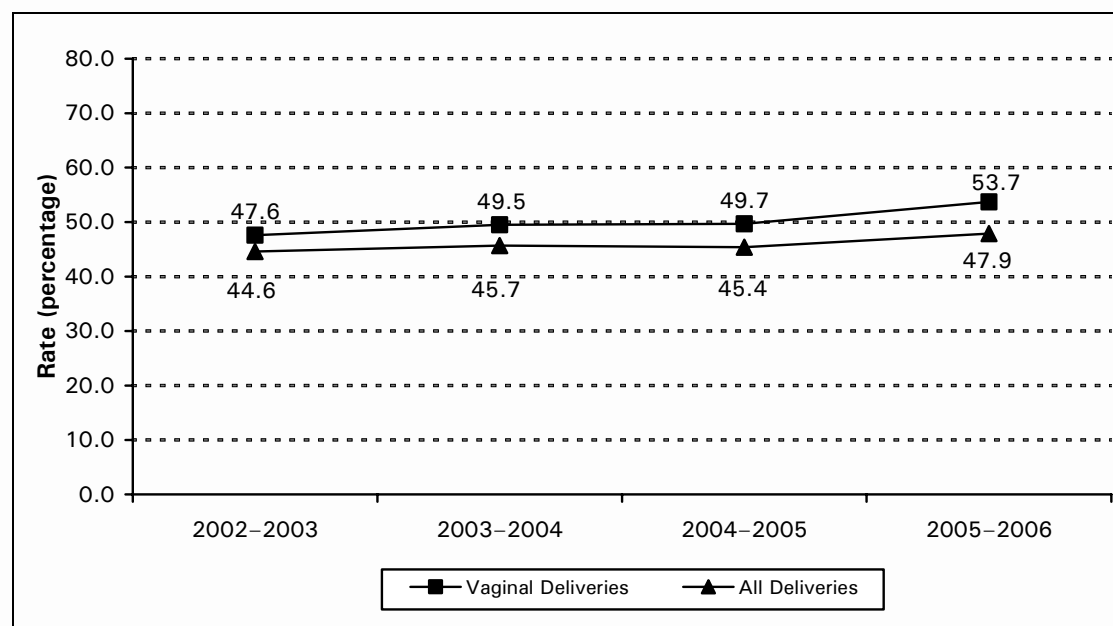


Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred. For P.E.I. (1100), the Yukon (6001), the Northwest Territories (6101) and Nunavut (6201), the data on the map represent the entire province or territory. Data from Alberta were suppressed due to under-reporting. Only reportable regions are labelled.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Figure 2 demonstrates the steady rise in epidural rates among vaginal and all deliveries between 2002–2003 and 2005–2006. Data in this figure are limited to provinces/territories that implemented the ICD-10-CA and CCI coding classification system during this time, as well as Quebec.

Figure 2. Epidural Rates Among Vaginal Deliveries for ICD-10-CA and CCI Reporting, Provinces/Territories and Quebec, From 2002–2003 to 2005–2006



Notes: The 2002–2003 rate excludes data from Nunavut, New Brunswick and Manitoba, and the 2003–2004 rate excludes data from Manitoba. Reasons for these exclusions are described in Appendix A. The 2005–2006 rate excludes data from Alberta due to under-reporting.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

1.2. Assisted Deliveries

In 2005–2006, Canadian estimates for the overall, vacuum and forceps-assisted delivery rates were 14.3%, 9.8% and 3.7%, respectively.

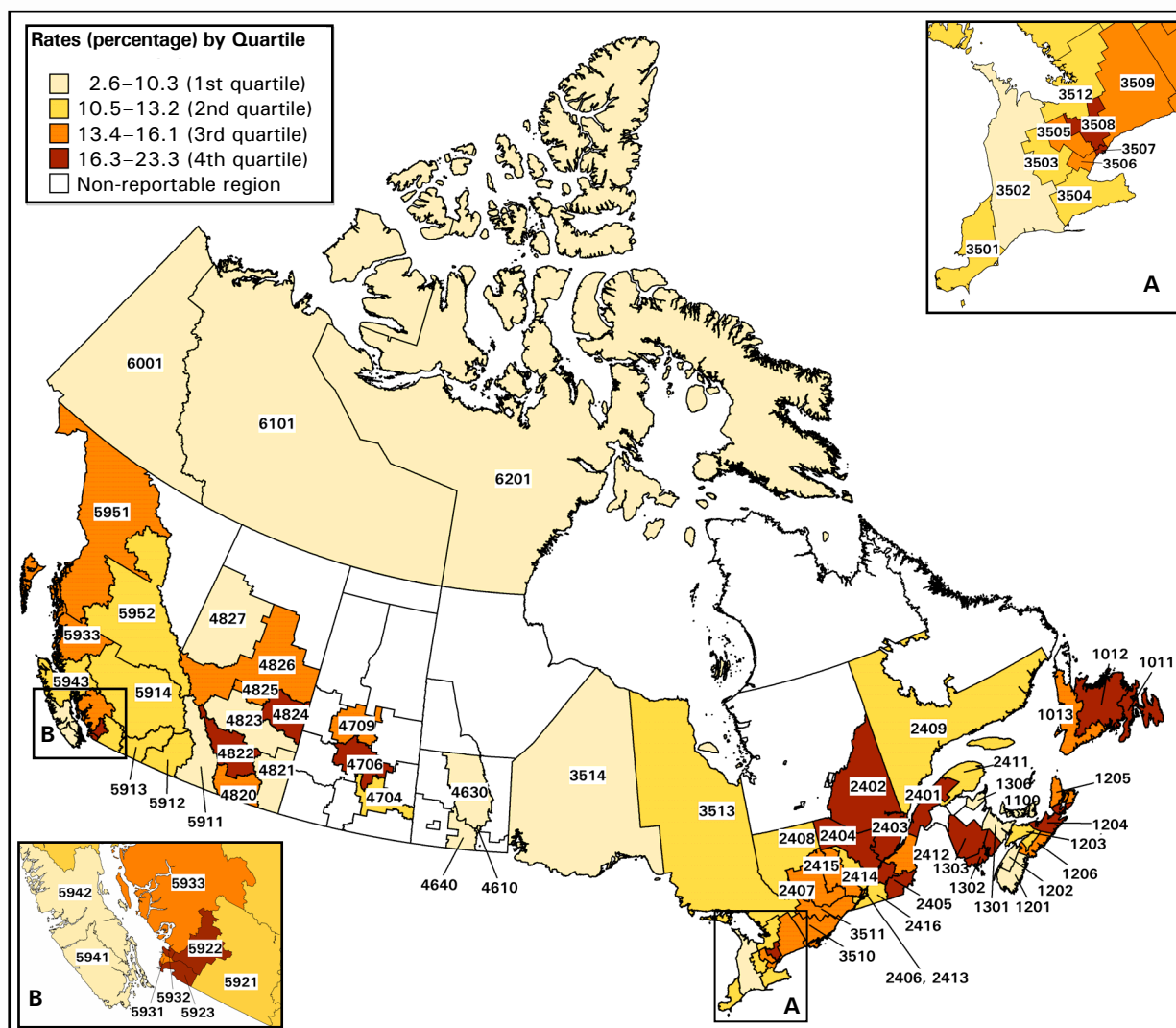
Figure 3 highlights those regions with the lowest and highest overall assisted delivery rates in 2005–2006. Among the lowest were Region 6 (Bathurst area, region 1306) of New Brunswick and Central Manitoba (region 4640), while the highest rates were observed in Calgary (region 4822) and East Central (region 4824) in Alberta. The overall assisted delivery rate ranged from 4.5% in Region 6 of New Brunswick (region 1306) to 23.3% in East Central Alberta (region 4824); the vacuum-assisted delivery rate ranged from 1.7% in the South West region in Ontario (region 3502) to 17.8% in Calgary (region 4822); and the forceps-assisted delivery rate ranged from 0.6% in Peace Country Alberta (region 4827) to 10.4% in Estrie, Quebec (region 2405). Further details are provided in Tables B-3 to B-5.

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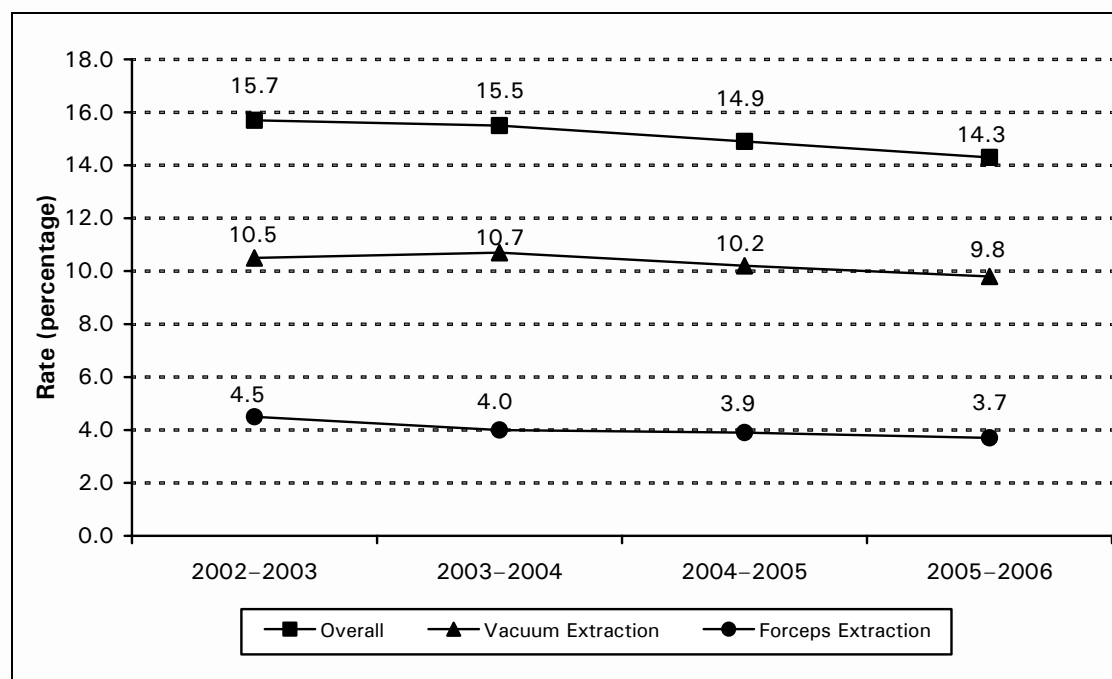
At the provincial level, the overall assisted delivery rate ranged from 6.5% in P.E.I. to 16.8% in Newfoundland and Labrador, while the vacuum extraction rate ranged from 3.9% in P.E.I. to 11.7% in Alberta. Forceps-assisted delivery rates were notably lower than vacuum-assisted rates and ranged from 2.4% in P.E.I. to 5.7% in Newfoundland and Labrador. Among the territories, overall assisted delivery rates ranged from 2.6% in Nunavut to 8.3% in the Yukon.

Figure 3. Overall Assisted Delivery Rates (Includes Vacuum Extraction and/or Forceps Use), by Reportable Health Region, Canada, 2005–2006



Assisted delivery rates decreased between 2002–2003 and 2005–2006 (refer to Figure 4). The overall assisted delivery rate in 2002–2003 was 15.7% compared to 14.3% in 2005–2006. This downward trend was also observed for vacuum- and forceps-assisted deliveries. However, the rate of vacuum-assisted deliveries was consistently higher than double the rate of forceps-assisted deliveries.

Figure 4. Assisted Delivery Rates (Overall, Vacuum Extraction, Forceps) Among Vaginal Deliveries, for ICD-10-CA and CCI-Reporting Provinces/Territories and Quebec, From 2002–2003 to 2005–2006



Notes: The 2002–2003 rate excludes data from Nunavut, New Brunswick and Manitoba, and the 2003–2004 rate excludes data from Manitoba. Reasons for these exclusions are described in Appendix A.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

1.3. Caesarean Sections

In 2005–2006, Canadian estimates for total and primary C-section rates were 26.3% and 18.6%, respectively. Of those women who had a previous C-section and gave birth in 2005–2006, 81.9% had a repeat C-section performed. The primary C-section rate for women younger than 35 years old was 17.7%, while the rate for women aged 35 years or older was 23.2%.

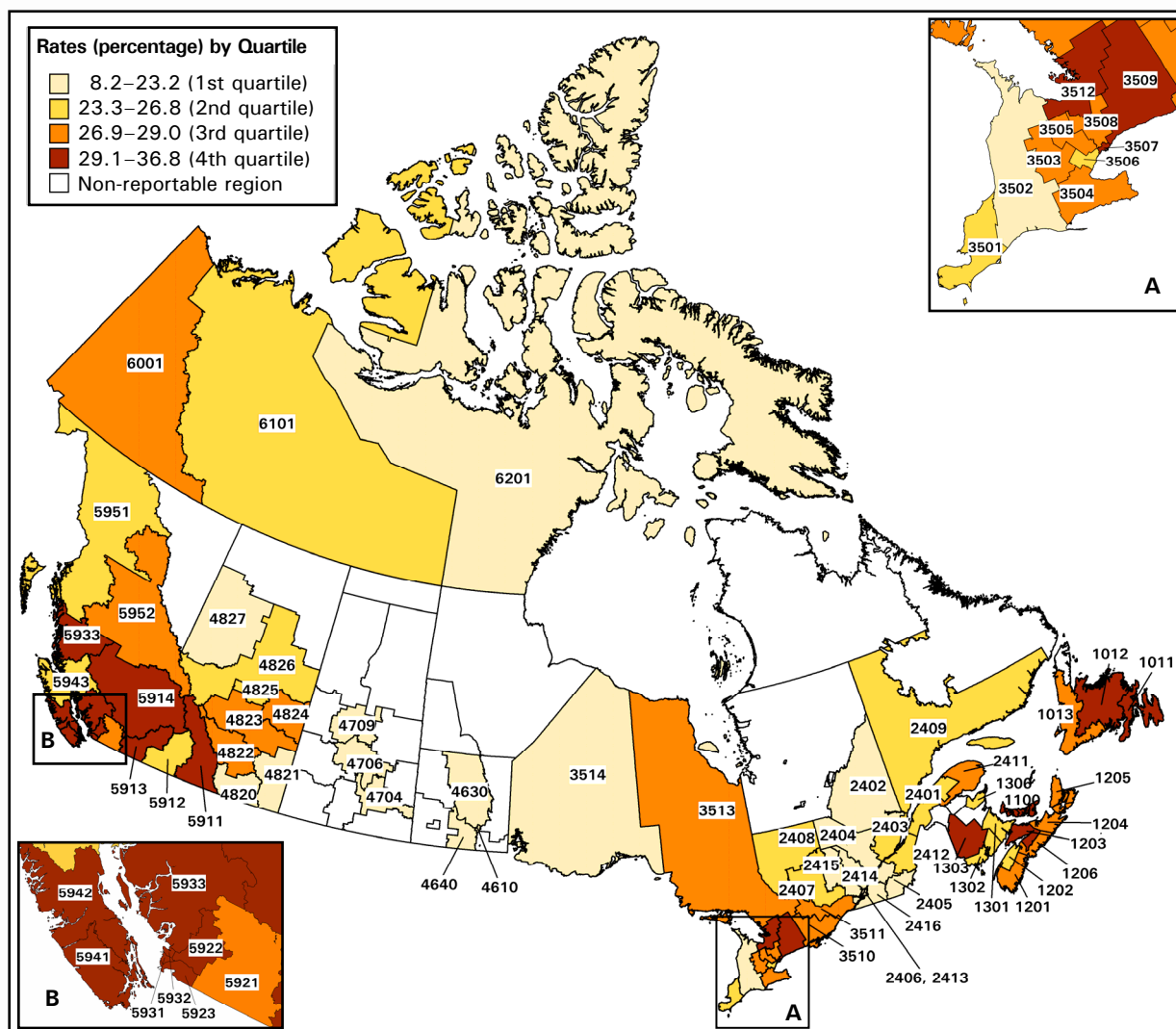
Among reportable regions, the total rate of Caesarean deliveries ranged from 17.8% in the Interlake region of Manitoba (region 4630) and 18.5% in the Prince Albert region of Saskatchewan (region 4709), to 34.0% in Central Newfoundland and Labrador (region 1012) and 36.8% in South Vancouver Island (region 5941). Figure 5 presents the regional variation in total C-section rates in 2005–2006. Regions in the highest

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quartile (29.1% to 36.8%) were primarily in B.C., the Atlantic provinces and some regions in Ontario. Regional rates in Quebec, Saskatchewan and Manitoba were among the lowest in the country. Additional details are provided in Tables B-6 to B-10.

Figure 5. Total Caesarean Rates by Reportable Health Region, Canada, 2005–2006



Notes: Results are presented for the patient's region of residence, rather than the location of the facility where hospitalization occurred. For P.E.I. (1100), the Yukon (6001), the Northwest Territories (6101) and Nunavut (6201), the data on the map represent the entire province or territory. Only reportable regions are labelled.

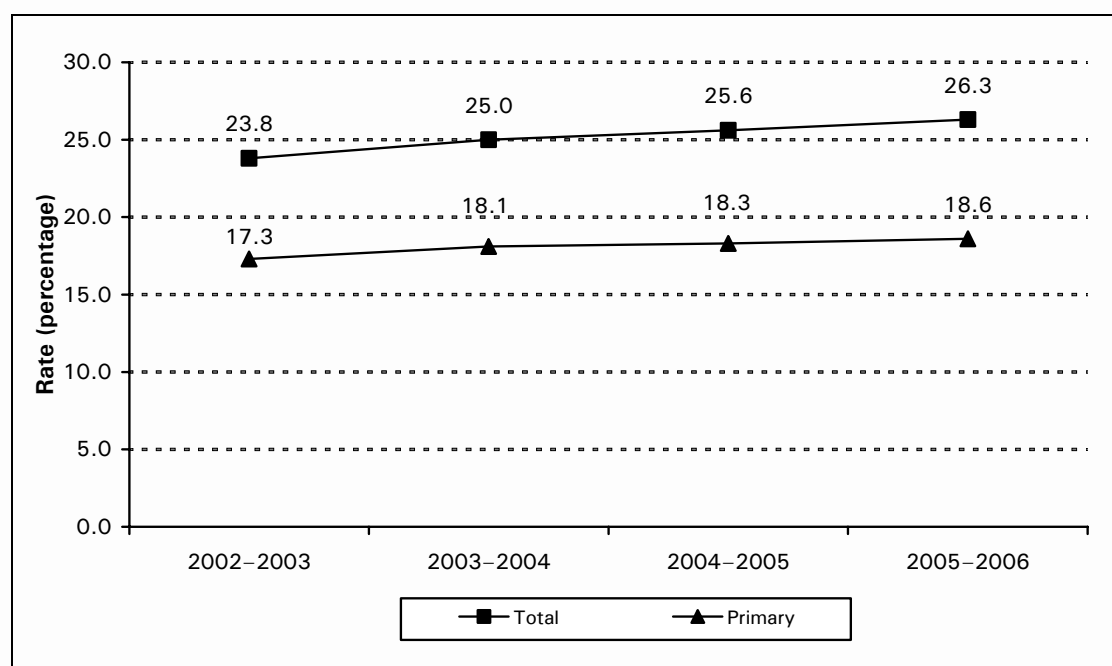
Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

With the exception of Nunavut (8.2%), the total C-section rate for all provinces and territories in 2005–2006 exceeded 20%. At the provincial level, total C-section rates ranged from a low of 21.1% in Saskatchewan and 21.3% in Manitoba to 30.1% in Newfoundland and Labrador and 30.4% in B.C.. Similar to what was observed at the

regional level, rates were relatively low in Quebec, Saskatchewan and Manitoba. The results of these inter-province/territory comparisons for the total C-section rates were generally consistent for the primary and repeat C-section indicators.

A notable increase in the total and primary C-section rates was observed between 2002–2003 and 2005–2006 (Figure 6). The rate for total C-sections in 2002–2003 was 23.8% compared to 26.3% in 2005–2006, while the rate for primary C-sections in 2002–2003 was 17.3% compared to 18.6% in 2005–2006.

Figure 6. Total and Primary C-Section Rates for ICD-10-CA and CCI-Reporting Provinces/Territories, and Quebec, From 2002–2003 to 2005–2006

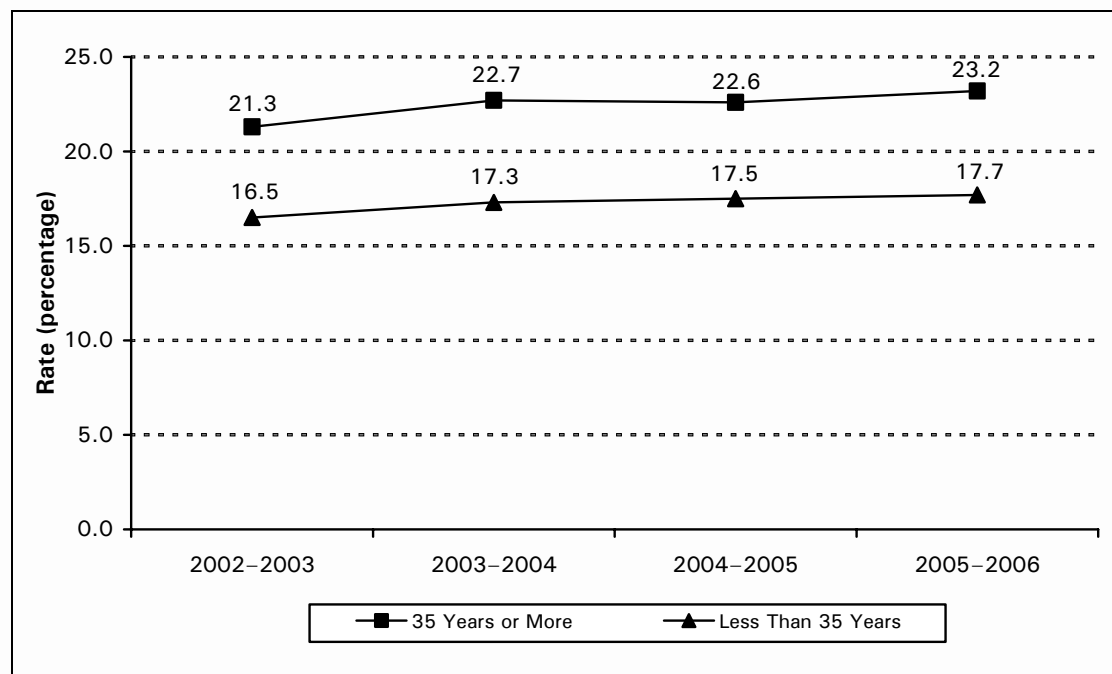


Notes: The 2002–2003 rate excludes data from Nunavut, New Brunswick and Manitoba, and the 2003–2004 rate excludes data from Manitoba. Reasons for these exclusions are described in Appendix A.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

The rate of primary C-section deliveries among women below 35 years of age and 35 years or older also increased between 2002–2003 and 2005–2006 (Figure 7). However, the primary C-section rate was consistently higher for women aged 35 years or older. In Canada, the average age of women who had a C-section was significantly higher than the average age of women who had a vaginal delivery (30.4 years versus 28.7 years, $p < 0.05$). It was also observed that the average age of mothers giving birth in Nunavut was lower than what was observed in all other provinces and territories (data not shown).

Figure 7. Primary C-Section Rates by Age Group (<35 Years and ≥35 Years), for ICD-10-CA and CCI-Reporting Provinces/Territories, and Quebec, From 2002–2003 to 2005–2006



Notes: The 2002–2003 rate excludes data from Nunavut, New Brunswick and Manitoba, and the 2003–2004 rate excludes data from Manitoba. Reasons for these exclusions are described in Appendix A.

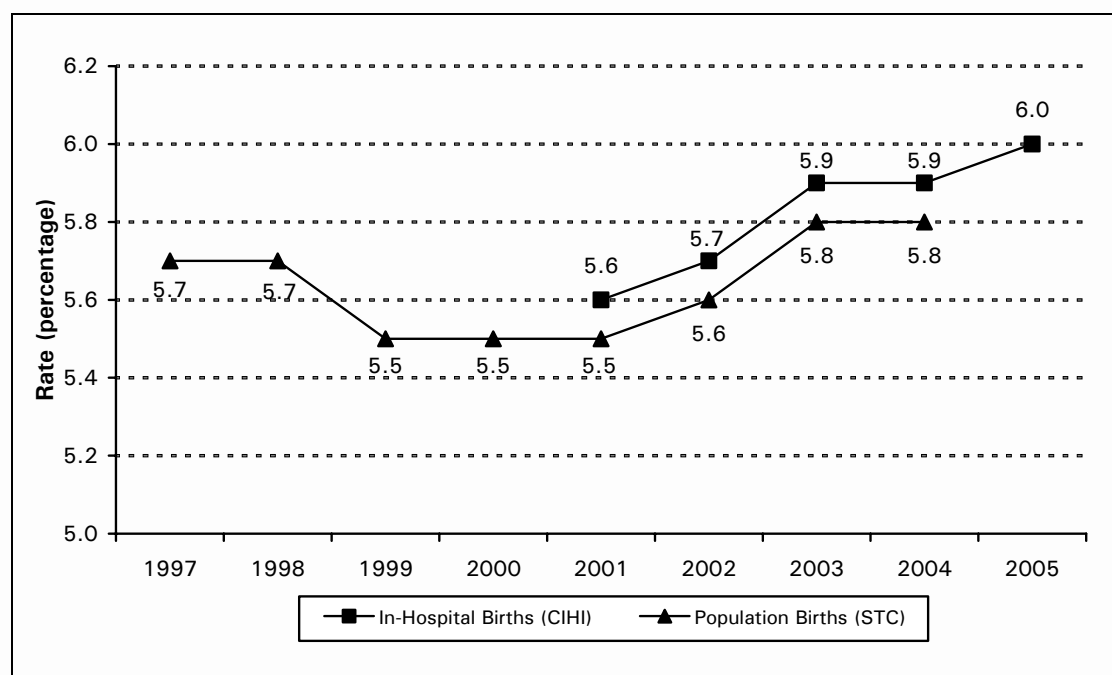
Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

1.4. Low Birth Weight

In 2005–2006, 6.1% of babies that were born in a hospital in Canada had a birth weight of less than 2,500 grams. According to the Canadian Vital Statistics Birth Database, which includes all babies born in Canada (including out-of-hospital births), the low birth weight (LBW) rate in 2004 was 5.9%.

Figure 8 shows the LBW rates using both sources of data. Babies with a birth weight of less than 500 grams were excluded due to reporting variations across jurisdictions over time.¹⁸ The LBW rate among in-hospital births was consistently higher than the rate based on all births in Canada. Population data show a decline in LBW rates between 1997 and 1999 and an increase in rates from 2001 to 2004. This increase in rates is supported by trends using the in-hospital births data.

Figure 8. Rates of Low Birth Weight (Excludes Babies Weighing Less Than 500 Grams) in Canada From 1997 to 2005 Using In-Hospital (CIHI) and Population Births (Statistics Canada, STC)



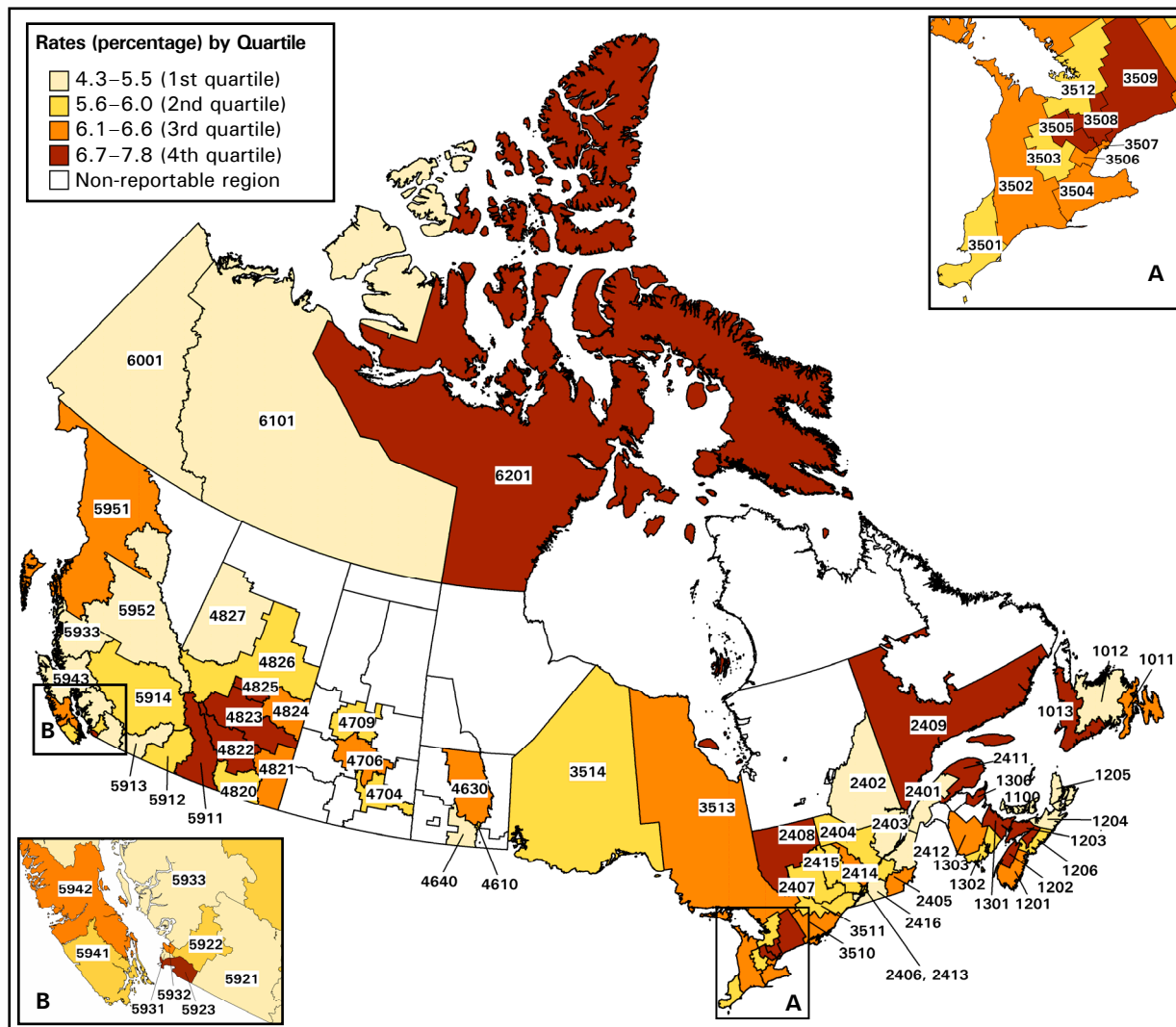
Notes: These data exclude babies weighing less than 500 grams and babies with unknown birth weight. Data from Statistics Canada include all births in Canada for the calendar year, while data from CIHI include all in-hospital births in Canadian acute care facilities for the fiscal year. In-hospital low birth weight rates prior to 2001–2002 could not be determined since these data were not submitted to CIHI by all provinces and territories.

Sources: Canadian Vital Statistics Birth Database, Statistics Canada, 1997 to 2004; Discharge Abstract Database and Hospital Morbidity Database, CIHI, 2001–2002 to 2005–2006.

Figure 9 depicts the regional variation in in-hospital LBW rates in 2005–2006, which ranged from 4.3% in Central Manitoba (region 4640) and North Vancouver Island (region 5943), to 7.7% in Western Newfoundland and Labrador (region 1013) and 7.8% in Calgary (region 4822). Regions in the highest quartile (6.7% to 7.8%) were observed in almost all provinces, with the exception of P.E.I, Saskatchewan and Manitoba. Tables B-11 and B-12 provide the regional and provincial/territorial rates for the in-hospital births between 2001–2002 and 2005–2006.

At the provincial level, LBW rates in 2005–2006 ranged from 5.0% in P.E.I. and 5.4% in Manitoba, to 6.4% in Ontario and 6.9% in Alberta. Nunavut had the highest rate of LBW babies among the provinces and territories at 7.3%.

Figure 9. In-Hospital Low Birth Weight Rates (<2,500 Grams), by Reportable Health Region, Canada, 2005–2006



Notes: Results are presented for the patient's region of residence, rather than the location of the facility where hospitalization occurred. For P.E.I. (1100), the Yukon (6001), the Northwest Territories (6101) and Nunavut (6201), the data on the map represent the entire province or territory. Only reportable regions are labelled.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Discussion

In 2005–2006, estimates for the epidural rate among vaginal and all deliveries were 53.7% and 47.9%, respectively. These estimates are lower than what has been reported in the U.S. (2001: 61%),³ though higher than the rates in England (2005–2006: 22%)⁴ and Australia (2004: 31.2%).⁵ While these differences may represent different approaches to pain management during labour, the definition of this indicator and differences in coding practices may also account for the variation in reported rates. At the regional level, there was an eightfold difference in the rate of epidural use among vaginal deliveries. Some of this variation may be explained by differences in the distribution of patient preferences, characteristics of the mother, provider training and practice, as well as hospital characteristics across the country.^{19, 20} Although epidural analgesia provides effective pain relief during labour, it is also associated with prolonged labour, increased incidence of maternal fever and increased rates of instrument-assisted vaginal delivery.^{2, 21} The association with increased rates of Caesarean delivery is controversial and may depend on when the epidural is given during labour.²² Overall, the data presented in this report do not appear to support this relationship, particularly in Quebec where regions with high epidural rates have low Caesarean section delivery rates, and vice versa in British Columbia (refer to Figures 1 and 5). In Canada, the rate of epidural use among vaginal and all types of deliveries in most regions, provinces and territories increased between 2001–2002 and 2005–2006. An increase in the rate of epidural use has also been reported in the U.S.³

In 2005–2006, the rates of overall, vacuum- and forceps-assisted vaginal deliveries in Canada were 14.3%, 9.8% and 3.7%, respectively. These are higher than what has been reported in the U.S. (2004: 5.2%, 4.1%, 1.1%, respectively)⁷ and Australia (2004: 11.0%, 7.1%, 3.9%, respectively).⁵ In general, the overall rate of assisted deliveries decreased between 2001–2002 and 2005–2006. This recent trend in Canada is different from what was observed between 1991–1992 and 2000–2001, where the overall rate of assisted deliveries remained stable, while an increase in vacuum extractions and decrease in forceps use were observed.⁹ In the U.S., an overall decline in the rate of instrument-assisted deliveries has also been observed.⁷ The general decline in instrument-assisted deliveries may be explained in part by changes in obstetrical practices, variation in provider training and provider preference.^{6, 8, 23} The use of vacuum extractors and forceps is not without risk to the baby.^{23, 24} However, the more frequent use of vacuum extractors may reflect its popularity due to reduced risk of maternal injury²⁴ and increased ease of use,²³ compared to forceps.

The total C-section rate in Canada in 2005–2006 was 26.3%, which is lower than the rate in the U.S. (29.1%)⁷ and Australia (29.4%)⁵ in 2004, though higher than the rate in England in 2005–2006 (23.5%).⁴ Similarly, the primary (18.6%) and repeat C-section rates (81.9%) in Canada in 2005–2006 were lower than the rates in the U.S. in 2004 (20.6% and 90.8%, respectively).⁷ The increase in the total, primary and repeat C-section rates in Canada is consistent with what has been observed globally.^{4, 5, 7, 11} The rise in repeat C-section rates indicates that the

proportion of women who have a vaginal birth after having had a C-section has decreased. This agrees with what has been observed historically¹ and has been attributed to increases in elective repeat Caesarean deliveries.²⁵ Increased C-section rates are associated with higher maternal age, lower parity and high pre-pregnancy weight.^{25, 26} In Canada, the average age of mothers giving birth has increased, as has the proportion of mothers giving birth for the first time.²⁷ Similarly, obesity rates among Canadian women have increased significantly.²⁸ Changes in obstetrical practices,²⁶ increased acceptance of obstetric interventions,²⁹ low tolerance for fetal risk³⁰ and potential medico-legal concerns³¹ may also account for the increase in C-section rates.

One issue that has garnered much debate is the influence of maternal requests for C-sections on the increasing rates.^{32, 33} While it has been suggested that this might be more common among affluent women, no association between socio-economic status and C-section rates has been identified in Canada.³⁴ Furthermore, a recent review of the literature on this topic found that the proportion of C-sections performed solely on the basis of maternal request was actually very low, and suggested that physicians' perceptions of women's views and physicians' personal preferences may be factors in driving the rate upward.³⁵

In 2005–2006, the proportion of in-hospital births of babies with a low birth weight (LBW) was 6.1%. The rate in 2004 using data from the national birth registry was 5.9%. Both rates are lower than those reported in the U.S. (8.1%)⁷ and Australia (6.4%)⁵ in 2004 and England in 2005–2006 (7.6%).³⁶ Despite the fact that over 99% of all deliveries in Canada take place within a hospital-setting,³⁷ the in-hospital low birth weight rates were consistently higher than the rates based on the national birth registry. This is likely due to the fact that higher risk deliveries (which are associated with smaller babies), are more likely to occur in a hospital setting. In Canada, the LBW rate declined between 1997 and 1999 and increased between 2001 and 2004, which is in contrast to the consistent increase in LBW rates observed in the U.S. between 1984 and 2004.⁷ Fluctuations in the national rate were primarily driven by fluctuations in Ontario, Quebec, Alberta and B.C., which collectively represented 85.4% of all births in Canada in 2004.²⁷

Low birth weight is the result of pre-term birth or intra-uterine growth restriction, the causes of which are many.³⁸ Some factors that may explain decreases in the LBW rate in Canada are smoking³⁹ and low maternal age,⁴⁰ because the rate of smoking among men and women in all age groups has decreased,⁴¹ as has the teenage pregnancy rate.⁴² This may also explain some of the provincial/territorial variation in rates. Nunavut, which has the highest smoking⁴¹ and teenage pregnancy rates,⁴² had the highest LBW rate in 2005–2006 (7.3%). In contrast, the LBW rates in B.C. (lowest smoking rates⁴¹) and P.E.I. (lowest teenage pregnancy rates⁴²) were generally lower. Factors that may explain increases in the LBW rate in Canada are high maternal age,⁴³ multiple births,³⁷ the use of assisted reproductive technologies (ART)⁴⁴ and smaller maternal stature.³⁸ Older mothers and the use of ART are associated with an increase in multiple births.^{7, 45} In Canada, the prevalence of each of these factors

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has increased.^{9, 27, 45} In relation to maternal stature, changing immigration patterns have also been implicated in the rise in LBW rates.⁴⁶ Census data from Statistics Canada support a trend over the past 40 years for immigrants originating from Asian countries rather than from European countries.⁴⁷ Other factors that may explain the regional and provincial/territorial variation in rates include marital status,⁴⁸ maternal education,⁴⁹ neighbourhood socio-economic status and living in a rural community.⁵⁰

The variations in rates observed at the regional, provincial/territorial and national levels for each group of indicators are likely due to differences in the distribution of the above factors across geographic areas and over time. Further investigation aimed at quantifying the relative contributions of each of the factors will provide valuable information, since C-section deliveries and epidurals are not without risk to the mother and baby, as well as higher health care costs. Similarly, studies aimed at understanding the reasons behind the increase in low birth weight rates may inform public health policy. Additional information on various aspects of maternal, fetal and infant health in Canada will be provided in the Canadian Perinatal Health Report, 2007, to be released by the Public Health Agency of Canada in the fall of 2007.

Appendix A: Data Sources, Methodology, Limitations

Data Sources

Data for all in-hospital-based indicators were obtained from CIHI's national Hospital Morbidity Database (HMDB) and Discharge Abstract Database (DAD). The DAD and HMDB data holdings capture administrative, clinical and demographic information on inpatient events from acute care hospitals in Canada. The HMDB is populated by a subset of DAD data. Hospitalization data from jurisdictions that do not submit to the DAD are appended to the HMDB. At present, Quebec is the only jurisdiction not submitting to the DAD because of differences between the DAD minimum data set and the Med-Echo database, Quebec's hospitalization database.

The population-based (includes out-of-hospital births) low birth weight rates presented in Figure 8 and throughout the report were obtained from Statistics Canada's Vital Statistics Birth Database (CANSIM Tables 102-4005, 102-4509).

The Postal Code Conversion File (PCCF) (June 2005, catalogue number 92F0153UCE) and the Health Regions: Boundaries and Correspondence with Census Geography (2005, catalogue number 82-402-XIE) from Statistics Canada were used to assign patients to their region of residence.

Methodology

The primary population of analysis in this report consists of inpatient discharges from an acute care hospital from 2001–2002 to 2005–2006. Stillborn and cadaveric donor records were excluded from this analysis. Hospitalizations included discharges and deaths for inpatients in acute care hospitals for the reference period. Data were based on the fiscal year of discharge. For example, the 2005–2006 figures are based on discharges occurring between April 1, 2005, and March 31, 2006.

Indicator definitions were based on the original *Giving Birth in Canada: A Regional Profile* report,¹ with updates and revisions for ICD-10-CA/CCI. Detailed indicator definitions are provided in the [Technical Notes](#) document. The methodology used for the indicators was designed to maximize inter-regional, interprovincial and inter-territorial comparability, and was derived through extensive consultation with internal and external stakeholders. Detailed results for the following indicators are presented in Appendix B: epidural rates among vaginal and all deliveries; overall (forceps and/or vacuum extraction), vacuum extraction- and forceps-assisted delivery rates among vaginal deliveries; total and primary C-section rates among all deliveries; repeat C-section rates among women who had a previous C-section; rates of babies weighing less than 2,500 grams and babies weighing between 500 and 2,500 grams among live newborns in an acute care institution.

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Data for this report were restricted to those provinces and territories that had fully implemented the ICD-10-CA and CCI coding classification system between 2001–2002 and 2005–2006. The ICD-10-CA and CCI systems of coding diagnoses and interventions came into effect in April 2001, and by April 1, 2004, had been adopted by all provinces and territories with the exception of Quebec, which maintained the ICD-9/CCP coding classification system during the period of analysis. Data were extracted based on the original classification system in which the data were submitted.

To facilitate comparisons over time, data from ICD-10-CA and CCI provinces and territories and Quebec were combined for 2002–2003 to 2005–2006. However, due to the staggered implementation of ICD-10-CA and CCI coding classification systems across the country, the 2002–2003 combined rate did not include data from Manitoba and New Brunswick, while the 2003–2004 rate did not include data from Manitoba. The provinces and territories that adopted the ICD-10-CA and CCI coding classification system in 2001–2002 were Newfoundland and Labrador, P.E.I., Nova Scotia, B.C. and the Yukon; in 2002–2003: Ontario, Saskatchewan, Alberta, the Northwest Territories and Nunavut; in 2003–2004: New Brunswick; in 2004–2005: Manitoba.

Data presented in this report were based on the patient's region and province or territory of residence, which may not be the same as the location of the hospital where treatment was received. Health regions are defined by provincial governments as areas of responsibility for regional health boards (that is, legislated) or as regions of interest to health care authorities. Boundaries were those that were in effect as of June 2005, with the exception of Ontario regions, which are current as of August 2005. For abstracts that were submitted by hospitals outside of Quebec, patients were linked to their region and province of residence on the basis of the six-digit postal code recorded on the discharge abstract using the PCCF file. For abstracts that were submitted by Quebec, patients were linked to their province or territory of residence on the basis of the patient residence code.

In order to provide for more stable rate estimation, as well as to reduce the risk of suppression due to privacy and confidentiality issues, only data from regions with a population of at least 75,000 were reported ("reportable region"). The exceptions were P.E.I., the Northwest Territories, Nunavut and the Yukon, where only rates at the provincial/territorial level were presented. Additional indications for suppression were rate instability, small numbers and under-reporting. Regional rates that were suppressed because of rate instability or small numbers were included in the provincial/territorial and Canadian rates. Instances of under-reporting at the regional level were addressed on a case-by-case basis with respect to the suppression of results.

Data extraction and statistical analysis for this report were carried out in SAS, version 9.1. Two analysts independently extracted the indicator results from the DAD and HMDB databases to ensure the accuracy of results. Where possible, the validity of these results was compared against external sources. Outlier and other anomalies were investigated either by using CIHI data or by contacting relevant health care facilities. Furthermore, results were sent to health regions and ministries of health for verification of results. The calculation of 95% confidence intervals and statistical tests of significance were based on the normal approximation to the binomial distribution. Maps were created using MapInfo® Professional version 8.5.

Data Limitations

Comparisons over the same time frame were not possible for all province and territories. In addition, caution must be used when interpreting the Canadian estimate rates and when comparing rates from Quebec to the rest of the country, due to some differences between the ICD-10-CA and CCI and ICD-9/CCP coding classification systems. Minor updates to the indicator definitions published in the previous report¹ may result in slight differences to the rates presented in the report.

As of 2001–2002, it was not possible to differentiate between Nunavut and Northwest Territories residents seen in Quebec facilities, since Nunavut residents were assigned the same patient residence code as Northwest Territories residents. Therefore, the results for Nunavut were under-represented, while the results for the Northwest Territories were over-represented. In addition, non-Quebec residents treated in a Quebec hospital could be assigned only to the patient's province or territory of residence, not the region. Therefore, rates for regions outside of Quebec were under-represented, particularly those in close proximity to the province.

Incomplete submission of data to CIHI was noted in several provinces and territories. Nunavut did not submit any abstracts for 2002–2003. In 2004–2005, data submissions from Region 6 in New Brunswick were incomplete. As a result, these data were suppressed and were excluded from the provincial rate. In 2005–2006, data submissions from the Palliser Health Region Alberta in 2005–2006 were incomplete. However, since the impact of these missing data on the regional rate was assumed to be minimal, the result for this region was not suppressed.

During the indicator verification process with external stakeholders, it was discovered that provincial variations existed in capture of epidural anaesthetics on an abstract. For this reason, comparisons between provinces/territories for these indicators should be made carefully. In addition, through extensive consultations with stakeholders in Alberta, inconsistencies in the capture of epidural anaesthetics were identified due to different interpretation of a change in reporting guidelines. This resulted in the under-reporting of epidural use, particularly for 2005–2006. Therefore, epidural results for Alberta for that fiscal year were suppressed.

Analysis in Brief

Taking health information further

It is important to note that the population-based LBW rates presented in Figure 9 are presented by calendar year rather than fiscal year. Additionally, these rates must be interpreted with caution as a result of several data quality issues pertaining to Ontario. Non-registration of births is minimal in all provinces and territories except Ontario, where it is estimated that up to 4% of births may not be registered.²⁷ This problem is attributed to the administration of a fee to register births in Ontario, where under-registration has been noted in vulnerable populations such as teenage mothers.⁵¹ Similarly, issues related to the truncation of birth weight and the consistent editing of weight and gestation have been noted in Ontario,⁵² though these issues appear to have been resolved as of 2002 (if not earlier). In addition, variation in the capture of live births weighing less than 500 grams across provinces and territories over time has been noted.¹⁸ Therefore, two versions of the in-hospital low birth weight indicator were provided to enhance comparability with the population-based rates.

Appendix B

Table B-1. Epidural Rate for Vaginal Deliveries by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		34.6	(33.0–36.3)	31.8	(30.2–33.4)	34.6	(33.0–36.2)	34.2	(32.5–35.8)	34.4	(32.7–36.0)
	1011 Eastern, N.L.	45.0	(42.7–47.2)	43.0	(40.7–45.2)	42.5	(40.3–44.8)	43.0	(40.6–45.3)	43.3	(41.0–45.5)
	1012 Central, N.L.	8.2	(6.0–10.5)	4.7	(3.1–6.4)	11.0	(8.4–13.6)	8.6	(6.3–11.0)	9.0	(6.4–11.6)
	1013 Western, N.L.	40.0	(35.7–44.3)	37.6	(33.2–42.0)	44.2	(39.8–48.5)	45.1	(40.5–49.6)	39.6	(34.9–44.3)
Prince Edward Island		17.3	(14.9–19.7)	17.8	(15.3–20.2)	19.2	(16.8–21.7)	22.2	(19.5–24.9)	24.7	(21.9–27.5)
Nova Scotia		48.7	(47.5–49.9)	48.8	(47.5–50.0)	50.8	(49.5–52.0)	51.4	(50.2–52.7)	51.2	(49.9–52.4)
	1201 Zone 1, N.S.	22.2	(19.3–25.1)	23.3	(20.3–26.4)	23.6	(20.5–26.8)	26.7	(23.3–30.1)	24.2	(20.9–27.6)
	1202 Zone 2, N.S.	35.0	(31.1–39.0)	37.4	(33.3–41.4)	41.6	(37.2–45.9)	46.8	(42.4–51.3)	48.3	(44.0–52.7)
	1203 Zone 3, N.S.	29.7	(26.3–33.1)	30.7	(27.1–34.3)	36.9	(33.3–40.6)	35.0	(31.4–38.7)	40.3	(36.7–44.0)
	1204 Zone 4, N.S.	26.0	(22.5–29.5)	25.5	(21.9–29.0)	33.5	(29.8–37.2)	29.5	(25.8–33.3)	26.8	(23.2–30.4)
	1205 Zone 5, N.S.	31.3	(28.1–34.5)	39.2	(35.7–42.7)	35.4	(32.0–38.8)	38.0	(34.5–41.4)	38.0	(34.6–41.5)
	1206 Zone 6, N.S.	72.4	(70.8–74.1)	68.7	(67.0–70.4)	70.1	(68.4–71.7)	69.0	(67.3–70.7)	68.8	(67.1–70.5)
New Brunswick		*	*	*	*	45.6	(44.2–46.9)	45.0	(43.6–46.4)	47.5	(46.1–48.9)
	1301 Region 1, N.B. (Moncton area)	*	*	*	*	43.4	(40.8–46.1)	45.8	(43.1–48.6)	46.8	(44.1–49.5)
	1302 Region 2, N.B. (Saint John area)	*	*	*	*	68.4	(65.8–70.9)	68.8	(66.2–71.5)	66.8	(64.2–69.5)
	1303 Region 3, N.B. (Fredericton area)	*	*	*	*	26.0	(23.6–28.5)	29.8	(27.3–32.4)	29.9	(27.3–32.5)
	1306 Region 6, N.B. (Bathurst area)	*	*	*	*	38.4	(33.6–43.2)	**	**	38.5	(33.6–43.4)
Quebec		60.3	(59.9–60.7)	63.4	(63.0–63.8)	65.0	(64.7–65.4)	67.2	(66.8–67.6)	68.4	(68.0–68.8)
	2401 Bas-Saint-Laurent	18.7	(16.6–20.9)	21.7	(19.3–24.1)	26.8	(24.3–29.3)	31.0	(28.4–33.7)	34.7	(32.1–37.3)
	2402 Saguenay-Lac-Saint-Jean	57.3	(55.2–59.4)	59.4	(57.2–61.6)	63.6	(61.4–65.8)	63.6	(61.5–65.8)	68.8	(66.7–70.8)
	2403 Capitale nationale	74.4	(73.1–75.7)	73.9	(72.5–75.2)	74.4	(73.0–75.7)	77.6	(76.4–78.9)	77.5	(76.3–78.7)
	2404 Mauricie et Centre-du-Québec	50.3	(48.5–52.0)	58.8	(57.1–60.4)	58.8	(57.1–60.5)	61.3	(59.6–63.0)	64.0	(62.3–65.6)
	2405 Estrie	69.1	(67.2–70.9)	72.2	(70.4–74.1)	69.8	(68.0–71.7)	70.3	(68.4–72.1)	70.1	(68.2–71.9)
	2406 Montréal	67.7	(67.0–68.5)	68.7	(67.9–69.4)	68.6	(67.8–69.3)	70.7	(69.9–71.4)	72.2	(71.5–73.0)
	2407 Outaouais	59.2	(57.1–61.4)	60.9	(59.0–62.8)	64.5	(62.6–66.4)	63.4	(61.5–65.3)	61.5	(59.7–63.4)
	2408 Abitibi-Témiscamingue	38.9	(36.2–41.6)	40.5	(37.6–43.4)	48.7	(45.8–51.6)	51.1	(48.1–54.1)	50.5	(47.6–53.4)
	2409 Côte-Nord	21.8	(18.9–24.7)	33.1	(29.7–36.6)	27.8	(24.6–31.0)	43.4	(39.9–47.0)	45.5	(42.0–49.1)
	2411 Gaspésie-Îles-de-la-Madeleine	36.9	(32.6–41.3)	37.3	(32.9–41.7)	43.6	(39.4–47.9)	43.2	(39.0–47.5)	39.9	(35.6–44.2)
	2412 Chaudière-Appalaches	72.5	(70.9–74.1)	74.2	(72.6–75.9)	76.4	(74.9–78.0)	74.9	(73.3–76.5)	76.4	(74.8–77.9)
	2413 Laval	65.0	(63.2–66.8)	72.1	(70.4–73.8)	71.9	(70.3–73.6)	74.4	(72.8–76.1)	75.3	(73.7–76.9)
	2414 Lanaudière	67.7	(66.0–69.4)	72.5	(70.9–74.2)	74.2	(72.6–75.8)	77.7	(76.2–79.2)	79.3	(77.9–80.7)
	2415 Laurentides	48.2	(46.6–49.7)	53.3	(51.7–54.8)	59.0	(57.4–60.5)	61.9	(60.4–63.5)	63.1	(61.6–64.6)
	2416 Montérégie	57.2	(56.2–58.2)	60.9	(60.0–61.9)	63.9	(63.0–64.9)	65.7	(64.7–66.6)	66.7	(65.8–67.6)
Ontario		*	*	50.7	(50.4–51.0)	53.2	(52.8–53.5)	54.5	(54.1–54.8)	56.1	(55.8–56.4)
	3501 Erie St. Clair	*	*	47.1	(45.7–48.4)	47.2	(45.9–48.6)	47.8	(46.4–49.1)	49.4	(48.0–50.8)
	3502 South West	*	*	50.9	(49.8–52.1)	52.3	(51.2–53.5)	52.3	(51.1–53.5)	53.7	(52.6–54.9)
	3503 Waterloo Wellington	*	*	44.8	(43.5–46.1)	48.0	(46.8–49.3)	48.2	(46.9–49.5)	51.4	(50.1–52.7)
	3504 Hamilton Niagara Haldimand Brant	*	*	54.7	(53.8–55.7)	57.9	(56.9–58.9)	57.8	(56.8–58.7)	59.8	(58.8–60.8)
	3505 Central West	*	*	45.9	(44.7–47.1)	48.4	(47.2–49.5)	50.8	(49.7–51.9)	51.5	(50.4–52.6)
	3506 Mississauga Halton	*	*	58.3	(57.3–59.3)	59.8	(58.8–60.8)	59.5	(58.5–60.5)	63.1	(62.1–64.1)
	3507 Toronto Central	*	*	59.5	(58.5–60.5)	62.3	(61.3–63.3)	63.5	(62.5–64.5)	65.9	(64.9–66.9)
	3508 Central	*	*	55.7	(54.9–56.6)	58.6	(57.8–59.5)	60.7	(59.9–61.5)	61.3	(60.5–62.2)
	3509 Central East	*	*	48.4	(47.5–49.4)	50.9	(49.9–51.8)	54.2	(53.3–55.1)	55.9	(54.9–56.8)
	3510 South East	*	*	44.0	(42.3–45.8)	46.1	(44.3–47.8)	47.9	(46.2–49.7)	50.5	(48.7–52.3)
	3511 Champlain	*	*	60.1	(59.1–61.1)	62.9	(61.9–63.9)	64.2	(63.2–65.2)	64.1	(63.0–65.1)
	3512 North Simcoe Muskoka	*	*	38.7	(36.9–40.4)	42.5	(40.7–44.3)	45.9	(44.1–47.8)	50.3	(48.5–52.1)
	3513 North East	*	*	22.5	(21.2–23.9)	27.8	(26.3–29.3)	30.5	(29.0–32.1)	33.9	(32.3–35.5)
	3514 North West	*	*	11.0	(9.6–12.4)	10.9	(9.5–12.3)	11.2	(9.8–12.6)	11.8	(10.4–13.2)

continued

Table B-1. Epidural Rate for Vaginal Deliveries by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		*	*	*	*	*	*	36.2	(35.3–37.1)	40.1	(39.2–41.0)
4610 Winnipeg		*	*	*	*	*	*	44.9	(43.5–46.2)	48.2	(46.9–49.5)
4630 Interlake		*	*	*	*	*	*	31.4	(27.7–35.1)	34.8	(31.2–38.4)
4640 Central		*	*	*	*	*	*	28.0	(25.3–30.7)	32.0	(29.2–34.8)
Saskatchewan		*	*	45.5	(44.4–46.5)	44.8	(43.8–45.8)	45.9	(44.9–46.9)	48.1	(47.1–49.1)
4704 Regina		*	*	63.4	(61.4–65.4)	63.9	(62.0–65.9)	62.6	(60.5–64.6)	63.4	(61.4–65.4)
4706 Saskatoon		*	*	68.2	(66.4–70.0)	68.5	(66.7–70.3)	70.6	(68.8–72.4)	71.5	(69.8–73.3)
4709 Prince Albert		*	*	29.5	(26.5–32.6)	29.3	(26.3–32.3)	27.1	(24.1–30.0)	34.5	(31.3–37.7)
Alberta		*	*	33.7	(33.1–34.2)	35.0	(34.5–35.6)	32.4	(31.9–33.0)	**	**
4820 Chinook		*	*	**	**	**	**	**	**	**	**
4821 Palliser		*	*	5.0	(3.7–6.4)	4.2	(3.0–5.5)	5.3	(3.9–6.7)	**	**
4822 Calgary		*	*	55.3	(54.3–56.3)	54.9	(54.0–55.9)	56.7	(55.8–57.7)	**	**
4823 David Thompson		*	*	7.3	(6.3–8.3)	7.5	(6.5–8.5)	6.5	(5.5–7.4)	**	**
4824 East Central		*	*	19.2	(16.6–21.8)	21.6	(18.9–24.3)	30.7	(27.7–33.7)	**	**
4825 Capital		*	*	36.5	(35.4–37.5)	39.3	(38.3–40.3)	23.4	(22.5–24.3)	**	**
4826 Aspen		*	*	15.7	(14.1–17.4)	21.5	(19.5–23.4)	15.3	(13.7–17.0)	**	**
4827 Peace Country		*	*	2.7	(1.9–3.6)	3.2	(2.3–4.0)	2.5	(1.7–3.3)	**	**
British Columbia		23.9	(23.4–24.4)	24.9	(24.4–25.4)	26.8	(26.3–27.3)	27.3	(26.8–27.8)	27.9	(27.4–28.5)
5911 East Kootenay		13.0	(10.0–16.0)	12.9	(9.9–15.9)	16.0	(12.6–19.3)	16.6	(13.0–20.1)	20.2	(16.5–23.9)
5912 Kootenay Boundary		16.2	(12.7–19.7)	10.8	(7.6–13.9)	14.9	(11.4–18.4)	12.6	(9.4–15.8)	17.2	(13.6–20.7)
5913 Okanagan		26.3	(24.3–28.2)	26.5	(24.4–28.5)	27.0	(24.9–29.1)	29.8	(27.6–31.9)	30.4	(28.3–32.6)
5914 Thompson/Cariboo/Shuswap		12.5	(10.6–14.3)	14.6	(12.6–16.6)	16.7	(14.6–18.8)	17.8	(15.7–20.0)	16.6	(14.5–18.6)
5921 Fraser East		17.8	(16.2–19.4)	15.1	(13.6–16.6)	15.6	(14.1–17.1)	15.0	(13.5–16.5)	12.3	(10.9–13.7)
5922 Fraser North		23.2	(21.9–24.5)	25.2	(23.8–26.5)	27.0	(25.6–28.4)	28.7	(27.3–30.2)	30.1	(28.6–31.5)
5923 Fraser South		28.0	(26.7–29.3)	28.5	(27.3–29.8)	29.5	(28.2–30.8)	29.2	(27.9–30.5)	30.1	(28.8–31.4)
5931 Richmond		28.3	(25.6–31.0)	32.4	(29.6–35.2)	35.4	(32.4–38.4)	34.1	(31.3–36.9)	33.9	(31.0–36.8)
5932 Vancouver		36.1	(34.6–37.6)	38.1	(36.6–39.6)	39.1	(37.6–40.5)	40.9	(39.3–42.4)	42.1	(40.6–43.6)
5933 North Shore		16.0	(14.2–17.8)	18.5	(16.6–20.3)	25.0	(22.9–27.2)	27.7	(25.5–29.9)	28.6	(26.3–30.9)
5941 South Vancouver Island		23.2	(21.3–25.1)	26.2	(24.1–28.3)	27.4	(25.4–29.4)	27.9	(25.8–30.1)	29.5	(27.4–31.7)
5942 Central Vancouver Island		22.3	(20.1–24.5)	23.7	(21.4–26.0)	28.3	(25.9–30.7)	24.6	(22.3–26.9)	27.6	(25.3–29.9)
5943 North Vancouver Island		11.2	(8.9–13.5)	8.9	(6.8–11.0)	9.7	(7.5–12.0)	12.3	(9.8–14.8)	10.3	(8.0–12.6)
5951 Northwest		19.9	(17.0–22.7)	19.2	(16.3–22.1)	17.5	(14.7–20.4)	18.3	(15.4–21.3)	19.4	(16.3–22.4)
5952 Northern Interior		18.0	(15.7–20.3)	17.4	(15.2–19.7)	22.8	(20.3–25.2)	21.3	(18.8–23.7)	18.8	(16.6–21.1)
Yukon Territory		14.8	(10.3–19.3)	27.5	(21.8–33.2)	29.9	(24.2–35.5)	26.9	(21.4–32.5)	32.4	(26.5–38.3)
Northwest Territories		*	*	7.6	(5.4–9.9)	11.7	(9.1–14.4)	12.6	(9.8–15.4)	14.8	(11.8–17.8)
Nunavut		*	*	*	*	3.4	(1.7–5.1)	7.1	(5.1–9.1)	9.0	(6.7–11.2)

Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data are not shown, since the ICD-10-CA and CCI coding classification system had not yet been adopted by the province or territory. Nunavut did not submit data to CIHI in 2002–2003.

** Data were suppressed due to rate instability or under-reporting. In Alberta, data from 2005–2006 were suppressed due to under-reporting of epidural use. Data from Chinook were also suppressed for this reason. Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-2. Epidural Rate for All Deliveries, by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		35.8	(34.4–37.2)	32.4	(31.1–33.8)	33.6	(32.3–35.0)	33.7	(32.3–35.1)	32.5	(31.1–33.9)
1011 Eastern, N.L.		44.5	(42.6–46.5)	42.0	(40.1–43.9)	40.2	(38.3–42.0)	40.6	(38.7–42.5)	39.7	(37.8–41.5)
1012 Central, N.L.		8.4	(6.4–10.4)	5.8	(4.2–7.3)	11.7	(9.4–13.9)	11.0	(8.8–13.2)	9.3	(7.2–11.4)
1013 Western, N.L.		45.3	(41.5–49.1)	38.3	(34.5–42.2)	44.0	(40.2–47.8)	45.1	(41.2–48.9)	40.0	(36.0–44.0)
Prince Edward Island		19.7	(17.6–21.8)	19.2	(17.0–21.3)	19.8	(17.7–21.9)	21.8	(19.6–24.0)	23.1	(20.8–25.5)
Nova Scotia		47.1	(46.1–48.2)	46.4	(45.3–47.4)	47.5	(46.5–48.6)	46.8	(45.7–47.8)	45.6	(44.5–46.6)
1201 Zone 1, N.S.		24.8	(22.1–27.4)	23.7	(21.0–26.3)	24.7	(21.9–27.5)	25.7	(22.9–28.6)	23.8	(21.0–26.7)
1202 Zone 2, N.S.		42.2	(38.6–45.8)	42.6	(38.9–46.2)	47.3	(43.5–51.2)	47.6	(43.7–51.4)	48.2	(44.5–51.9)
1203 Zone 3, N.S.		29.9	(26.9–32.8)	32.3	(29.1–35.4)	35.6	(32.6–38.6)	33.2	(30.1–36.2)	35.7	(32.7–38.7)
1204 Zone 4, N.S.		24.1	(21.2–27.0)	23.6	(20.6–26.5)	30.5	(27.4–33.6)	25.7	(22.6–28.7)	23.3	(20.3–26.2)
1205 Zone 5, N.S.		30.1	(27.3–32.8)	36.4	(33.5–39.3)	32.6	(29.7–35.4)	33.0	(30.2–35.9)	32.2	(29.4–35.0)
1206 Zone 6, N.S.		67.5	(66.0–68.9)	63.1	(61.5–64.6)	63.2	(61.7–64.7)	62.2	(60.7–63.7)	60.5	(59.0–62.1)
New Brunswick		*	*	*	*	41.6	(40.4–42.8)	40.5	(39.3–41.6)	42.1	(40.9–43.3)
1301 Region 1, N.B. (Moncton area)		*	*	*	*	41.1	(38.8–43.4)	43.8	(41.4–46.1)	41.1	(38.8–43.4)
1302 Region 2, N.B. (Saint John area)		*	*	*	*	61.9	(59.6–64.1)	60.7	(58.4–63.1)	59.9	(57.6–62.3)
1303 Region 3, N.B. (Fredericton area)		*	*	*	*	25.2	(23.1–27.2)	28.7	(26.6–30.8)	28.5	(26.4–30.6)
1306 Region 6, N.B. (Bathurst area)		*	*	*	*	35.4	(31.5–39.3)	**	**	36.2	(32.1–40.4)
Quebec		56.8	(56.4–57.2)	58.9	(58.5–59.2)	59.7	(59.3–60.0)	60.8	(60.4–61.1)	60.9	(60.5–61.2)
2401 Bas-Saint-Laurent		22.2	(20.2–24.3)	24.8	(22.6–27.0)	27.9	(25.7–30.1)	30.6	(28.3–32.9)	31.9	(29.7–34.1)
2402 Saguenay-Lac-Saint-Jean		54.5	(52.6–56.4)	54.7	(52.7–56.7)	57.7	(55.8–59.7)	57.7	(55.7–59.7)	62.8	(60.9–64.7)
2403 Capitale nationale		67.0	(65.7–68.2)	65.7	(64.5–67.0)	64.9	(63.6–66.2)	67.6	(66.4–68.9)	67.4	(66.2–68.6)
2404 Mauricie et Centre-du-Québec		45.7	(44.1–47.2)	53.4	(51.8–54.9)	53.0	(51.4–54.5)	54.6	(53.1–56.2)	55.2	(53.7–56.7)
2405 Estrie		63.5	(61.7–65.3)	67.9	(66.1–69.7)	64.3	(62.6–66.1)	63.9	(62.1–65.7)	62.4	(60.6–64.2)
2406 Montréal		63.7	(63.1–64.4)	64.2	(63.5–64.8)	63.3	(62.6–63.9)	64.3	(63.7–65.0)	64.2	(63.6–64.9)
2407 Outaouais		54.7	(52.7–56.7)	55.8	(54.1–57.6)	57.9	(56.2–59.6)	56.5	(54.8–58.2)	54.8	(53.1–56.4)
2408 Abitibi-Témiscamingue		40.9	(38.4–43.4)	41.4	(38.8–44.0)	47.9	(45.3–50.5)	47.7	(45.1–50.4)	45.6	(43.1–48.2)
2409 Côte-Nord		23.8	(21.2–26.5)	33.1	(30.1–36.1)	29.5	(26.6–32.4)	41.9	(38.8–45.0)	43.4	(40.2–46.5)
2411 Gaspésie-Îles-de-la-Madeleine		35.4	(31.6–39.2)	34.0	(30.3–37.8)	39.6	(35.9–43.3)	37.6	(34.0–41.3)	38.5	(34.8–42.1)
2412 Chaudière-Appalaches		66.2	(64.6–67.7)	66.4	(64.9–68.0)	67.5	(66.0–69.0)	66.0	(64.5–67.5)	66.9	(65.5–68.4)
2413 Laval		60.0	(58.4–61.6)	66.2	(64.6–67.8)	64.5	(63.0–66.1)	67.5	(65.9–69.0)	66.0	(64.5–67.5)
2414 Lanaudière		63.1	(61.5–64.7)	65.4	(63.8–66.9)	67.5	(66.0–69.0)	68.6	(67.2–70.1)	69.6	(68.2–71.1)
2415 Laurentides		46.5	(45.1–47.9)	50.2	(48.8–51.6)	54.3	(52.9–55.7)	56.7	(55.4–58.1)	56.8	(55.4–58.1)
2416 Montérégie		54.7	(53.8–55.6)	57.4	(56.6–58.3)	59.9	(59.1–60.8)	60.2	(59.4–61.1)	60.2	(59.3–61.0)
Ontario		*	*	47.3	(47.0–47.5)	48.9	(48.6–49.2)	49.1	(48.8–49.3)	49.7	(49.4–49.9)
3501 Erie St. Clair		*	*	46.6	(45.5–47.8)	45.7	(44.5–46.8)	45.5	(44.3–46.7)	46.2	(45.1–47.4)
3502 South West		*	*	48.1	(47.0–49.1)	48.2	(47.2–49.3)	48.1	(47.1–49.2)	48.4	(47.4–49.5)
3503 Waterloo Wellington		*	*	42.4	(41.3–43.5)	45.5	(44.4–46.6)	43.6	(42.4–44.7)	44.8	(43.7–45.9)
3504 Hamilton Niagara Haldimand Brant		*	*	49.5	(48.7–50.4)	52.0	(51.2–52.9)	51.2	(50.3–52.0)	51.6	(50.8–52.5)
3505 Central West		*	*	43.7	(42.7–44.7)	45.3	(44.3–46.2)	47.1	(46.2–48.1)	47.7	(46.7–48.6)
3506 Mississauga Halton		*	*	55.6	(54.7–56.5)	56.6	(55.7–57.5)	54.6	(53.7–55.5)	55.4	(54.5–56.3)
3507 Toronto Central		*	*	55.6	(54.7–56.4)	58.0	(57.1–58.8)	58.2	(57.4–59.1)	59.5	(58.6–60.3)
3508 Central		*	*	51.4	(50.6–52.1)	53.2	(52.5–54.0)	54.1	(53.4–54.8)	53.5	(52.8–54.3)
3509 Central East		*	*	44.8	(44.0–45.5)	46.6	(45.8–47.4)	47.9	(47.1–48.7)	49.1	(48.3–49.9)
3510 South East		*	*	40.5	(39.0–42.0)	40.9	(39.4–42.4)	42.2	(40.7–43.7)	43.2	(41.7–44.7)
3511 Champlain		*	*	54.4	(53.5–55.3)	55.6	(54.7–56.5)	55.9	(55.0–56.7)	55.6	(54.7–56.5)
3512 North Simcoe Muskoka		*	*	36.4	(34.8–37.9)	38.7	(37.2–40.1)	40.8	(39.3–42.3)	43.7	(42.2–45.2)
3513 North East		*	*	21.6	(20.5–22.8)	25.2	(24.0–26.4)	26.6	(25.3–27.8)	28.6	(27.3–29.8)
3514 North West		*	*	11.4	(10.2–12.7)	11.6	(10.3–12.8)	10.9	(9.7–12.2)	11.5	(10.3–12.7)

continued

Table B-2. Epidural Rate for All Deliveries, by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		*	*	*	*	*	*	35.4	(34.6–36.2)	37.6	(36.8–38.4)
4610 Winnipeg		*	*	*	*	*	*	42.6	(41.4–43.8)	45.0	(43.8–46.1)
4630 Interlake		*	*	*	*	*	*	28.6	(25.4–31.7)	33.0	(29.8–36.3)
4640 Central		*	*	*	*	*	*	26.6	(24.3–29.0)	29.5	(27.1–31.9)
Saskatchewan		*	*	41.5	(40.6–42.4)	41.1	(40.3–42.0)	41.9	(41.0–42.8)	43.6	(42.7–44.5)
4704 Regina		*	*	57.9	(56.0–59.8)	59.0	(57.2–60.8)	57.5	(55.6–59.4)	57.1	(55.2–58.9)
4706 Saskatoon		*	*	62.0	(60.3–63.6)	62.8	(61.2–64.5)	63.8	(62.1–65.4)	63.7	(62.0–65.3)
4709 Prince Albert		*	*	28.9	(26.1–31.7)	28.1	(25.4–30.8)	27.2	(24.5–29.9)	33.2	(30.3–36.1)
Alberta		*	*	32.7	(32.3–33.2)	33.5	(33.0–33.9)	31.3	(30.8–31.7)	**	**
4820 Chinook		*	*	**	**	**	**	**	**	**	**
4821 Palliser		*	*	5.4	(4.1–6.7)	5.2	(4.0–6.4)	5.5	(4.3–6.8)	**	**
4822 Calgary		*	*	51.2	(50.4–52.1)	50.2	(49.3–51.0)	51.0	(50.2–51.8)	**	**
4823 David Thompson		*	*	10.4	(9.4–11.4)	9.5	(8.6–10.5)	9.6	(8.7–10.6)	**	**
4824 East Central		*	*	18.4	(16.2–20.6)	20.7	(18.4–23.0)	27.2	(24.7–29.7)	**	**
4825 Capital		*	*	35.6	(34.7–36.5)	37.7	(36.9–38.6)	25.8	(25.0–26.6)	**	**
4826 Aspen		*	*	16.5	(15.0–18.0)	21.0	(19.4–22.7)	15.9	(14.4–17.3)	**	**
4827 Peace Country		*	*	3.1	(2.3–3.9)	4.3	(3.4–5.2)	3.7	(2.9–4.6)	**	**
British Columbia		25.3	(24.8–25.7)	25.7	(25.2–26.1)	27.1	(26.6–27.5)	27.4	(27.0–27.8)	27.2	(26.8–27.7)
5911 East Kootenay		13.6	(10.9–16.4)	12.6	(10.1–15.1)	14.6	(11.9–17.3)	15.1	(12.4–17.9)	16.1	(13.3–18.9)
5912 Kootenay Boundary		15.4	(12.4–18.3)	10.9	(8.3–13.6)	16.5	(13.3–19.7)	11.9	(9.2–14.6)	16.3	(13.3–19.3)
5913 Okanagan		25.7	(24.0–27.4)	24.8	(23.0–26.5)	26.0	(24.3–27.8)	28.1	(26.3–29.9)	27.3	(25.6–29.1)
5914 Thompson/Cariboo/Shuswap		13.3	(11.7–14.9)	15.6	(13.9–17.3)	16.7	(14.9–18.4)	18.6	(16.8–20.4)	16.3	(14.6–18.0)
5921 Fraser East		18.5	(17.1–20.0)	16.8	(15.4–18.1)	16.3	(15.0–17.6)	16.3	(15.0–17.6)	13.1	(11.9–14.3)
5922 Fraser North		24.8	(23.6–25.9)	26.1	(24.9–27.3)	27.2	(26.0–28.4)	29.0	(27.7–30.2)	29.6	(28.4–30.9)
5923 Fraser South		29.8	(28.7–30.9)	29.6	(28.5–30.7)	30.8	(29.7–31.9)	30.1	(29.1–31.2)	29.8	(28.7–30.8)
5931 Richmond		29.9	(27.6–32.2)	31.8	(29.4–34.1)	34.2	(31.7–36.6)	33.2	(30.9–35.6)	31.7	(29.3–34.0)
5932 Vancouver		36.6	(35.3–37.8)	37.9	(36.6–39.2)	38.8	(37.5–40.0)	39.9	(38.6–41.2)	39.9	(38.7–41.2)
5933 North Shore		18.5	(16.8–20.1)	19.9	(18.3–21.5)	23.8	(22.1–25.5)	26.2	(24.4–28.0)	26.8	(24.9–28.7)
5941 South Vancouver Island		25.2	(23.5–26.8)	28.4	(26.6–30.1)	28.9	(27.2–30.6)	29.6	(27.9–31.4)	29.8	(28.1–31.5)
5942 Central Vancouver Island		23.7	(21.8–25.6)	25.3	(23.3–27.2)	28.3	(26.3–30.4)	24.5	(22.5–26.4)	25.9	(24.0–27.9)
5943 North Vancouver Island		13.3	(11.2–15.4)	10.1	(8.2–12.0)	10.4	(8.4–12.4)	12.8	(10.7–14.9)	10.4	(8.4–12.4)
5951 Northwest		20.2	(17.7–22.7)	18.1	(15.7–20.4)	17.1	(14.7–19.5)	17.2	(14.7–19.6)	20.2	(17.5–22.8)
5952 Northern Interior		22.1	(20.0–24.1)	20.1	(18.0–22.1)	25.1	(23.0–27.3)	22.5	(20.4–24.6)	21.3	(19.3–23.3)
Yukon Territory		17.2	(13.1–21.3)	27.6	(22.6–32.7)	28.4	(23.5–33.3)	26.5	(21.8–31.2)	29.9	(25.0–34.8)
Northwest Territories		*	*	8.7	(6.5–10.8)	12.8	(10.4–15.2)	13.7	(11.1–16.3)	16.6	(13.9–19.3)
Nunavut		*	*	*	*	3.7	(2.0–5.3)	7.4	(5.5–9.3)	9.7	(7.5–11.9)

Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data are not shown, since the ICD-10-CA and CCI coding classification system had not yet been adopted by the province or territory. Nunavut did not submit data to CIHI in 2002–2003.

** Data were suppressed due to rate instability or under-reporting. In Alberta, data from 2005–2006 were suppressed due to under-reporting of epidural use. Data from Chinook were also suppressed for this reason. Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-3. Assisted Delivery Rate (Overall), by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		18.9	(17.6–20.2)	17.1	(15.9–18.4)	18.2	(16.9–19.5)	17.6	(16.3–18.9)	16.8	(15.5–18.2)
	1011 Eastern, N.L.	19.6	(17.8–21.4)	19.1	(17.4–20.9)	20.1	(18.3–21.9)	20.4	(18.5–22.3)	18.8	(17.0–20.5)
	1012 Central, N.L.	22.8	(19.3–26.2)	18.1	(15.1–21.1)	17.6	(14.5–20.8)	17.8	(14.6–21.0)	16.6	(13.2–19.9)
	1013 Western, N.L.	17.3	(14.0–20.7)	16.6	(13.2–19.9)	17.7	(14.4–21.1)	14.6	(11.4–17.8)	15.9	(12.4–19.5)
Prince Edward Island		7.0	(5.4–8.6)	8.4	(6.7–10.2)	7.3	(5.7–9.0)	8.7	(6.9–10.6)	6.5	(4.9–8.1)
Nova Scotia		13.6	(12.8–14.4)	15.5	(14.6–16.5)	15.9	(15.0–16.8)	14.5	(13.6–15.4)	13.3	(12.5–14.2)
	1201 Zone 1, N.S.	12.3	(9.9–14.6)	11.2	(8.9–13.5)	14.5	(11.9–17.1)	9.3	(7.1–11.5)	10.3	(7.9–12.7)
	1202 Zone 2, N.S.	13.0	(10.3–15.8)	13.0	(10.2–15.9)	8.2	(5.8–10.6)	9.2	(6.6–11.8)	8.7	(6.3–11.2)
	1203 Zone 3, N.S.	10.1	(7.9–12.4)	9.5	(7.2–11.8)	12.1	(9.7–14.6)	15.3	(12.5–18.0)	11.8	(9.4–14.2)
	1204 Zone 4, N.S.	18.5	(15.4–21.6)	22.4	(19.0–25.8)	24.3	(20.9–27.7)	19.6	(16.3–22.9)	17.5	(14.4–20.6)
	1205 Zone 5, N.S.	13.0	(10.7–15.3)	19.3	(16.5–22.2)	18.1	(15.3–20.8)	16.4	(13.8–19.1)	15.2	(12.6–17.7)
	1206 Zone 6, N.S.	14.0	(12.7–15.3)	16.2	(14.8–17.5)	16.1	(14.7–17.4)	15.1	(13.8–16.4)	13.9	(12.7–15.2)
New Brunswick		*	*	*	*	14.9	(13.9–15.8)	16.2	(15.2–17.3)	15.2	(14.2–16.2)
	1301 Region 1, N.B. (Moncton area)	*	*	*	*	11.4	(9.7–13.1)	12.5	(10.7–14.3)	9.8	(8.2–11.4)
	1302 Region 2, N.B. (Saint John area)	*	*	*	*	14.1	(12.2–16.0)	16.2	(14.2–18.3)	17.8	(15.7–19.9)
	1303 Region 3, N.B. (Fredericton area)	*	*	*	*	21.3	(19.0–23.6)	21.2	(19.0–23.5)	19.2	(17.0–21.4)
	1306 Region 6, N.B. (Bathurst area)	*	*	*	*	8.3	(5.6–11.1)	**	**	4.5	(2.4–6.5)
Quebec		15.5	(15.2–15.8)	15.3	(15.0–15.6)	14.9	(14.6–15.2)	14.1	(13.8–14.3)	13.6	(13.3–13.9)
	2401 Bas-Saint-Laurent	20.6	(18.4–22.8)	17.9	(15.6–20.1)	20.1	(17.8–22.3)	18.2	(15.9–20.4)	19.5	(17.3–21.6)
	2402 Saguenay-Lac-Saint-Jean	17.8	(16.2–19.4)	20.3	(18.5–22.1)	17.4	(15.7–19.1)	17.7	(15.9–19.4)	16.4	(14.8–18.1)
	2403 Capitale nationale	20.7	(19.5–21.8)	19.9	(18.7–21.1)	19.9	(18.7–21.1)	17.3	(16.1–18.4)	18.4	(17.3–19.6)
	2404 Mauricie et Centre-du-Québec	18.7	(17.3–20.0)	19.1	(17.8–20.5)	19.2	(17.9–20.6)	16.2	(14.9–17.5)	16.3	(15.0–17.5)
	2405 Estrie	20.3	(18.7–21.9)	21.0	(19.3–22.7)	18.3	(16.7–19.9)	17.2	(15.7–18.7)	16.3	(14.8–17.8)
	2406 Montréal	12.0	(11.5–12.6)	11.6	(11.1–12.1)	11.6	(11.1–12.1)	11.4	(10.9–11.9)	11.5	(11.0–12.0)
	2407 Outaouais	15.9	(14.3–17.5)	16.8	(15.4–18.3)	17.0	(15.5–18.4)	15.1	(13.7–16.5)	13.8	(12.4–15.1)
	2408 Abitibi-Témiscamingue	14.9	(12.9–16.9)	13.7	(11.7–15.7)	12.0	(10.1–13.9)	14.6	(12.5–16.7)	12.8	(10.8–14.8)
	2409 Côte-Nord	12.4	(10.1–14.7)	11.3	(9.0–13.6)	10.4	(8.2–12.6)	13.0	(10.6–15.5)	11.9	(9.6–14.2)
	2411 Gaspésie-Îles-de-la-Madeleine	19.3	(15.8–22.9)	13.1	(10.1–16.2)	11.2	(8.5–13.9)	13.5	(10.5–16.5)	11.9	(9.1–14.8)
	2412 Chaudière-Appalaches	16.9	(15.5–18.2)	16.2	(14.8–17.6)	15.1	(13.8–16.4)	14.8	(13.5–16.1)	14.6	(13.3–15.8)
	2413 Laval	19.6	(18.1–21.0)	18.3	(16.8–19.8)	19.0	(17.5–20.4)	16.9	(15.5–18.4)	16.1	(14.7–17.4)
	2414 Lanaudière	12.2	(11.0–13.4)	13.1	(11.8–14.3)	11.5	(10.3–12.6)	11.8	(10.6–13.0)	10.5	(9.4–11.5)
	2415 Laurentides	17.5	(16.3–18.7)	17.2	(16.0–18.4)	16.8	(15.6–18.0)	15.7	(14.6–16.9)	14.7	(13.6–15.8)
	2416 Montérégie	14.6	(14.0–15.3)	14.8	(14.1–15.5)	14.2	(13.5–14.9)	13.4	(12.7–14.0)	12.4	(11.8–13.0)
Ontario		*	*	15.1	(14.9–15.3)	15.1	(14.8–15.3)	15.1	(14.8–15.3)	14.4	(14.1–14.6)
	3501 Erie St. Clair	*	*	19.0	(17.9–20.1)	17.1	(16.1–18.1)	15.8	(14.8–16.8)	12.6	(11.7–13.5)
	3502 South West	*	*	11.3	(10.6–12.1)	9.7	(9.0–10.4)	11.0	(10.3–11.7)	9.3	(8.6–10.0)
	3503 Waterloo Wellington	*	*	12.9	(12.0–13.8)	14.3	(13.4–15.2)	12.2	(11.4–13.1)	12.1	(11.3–12.9)
	3504 Hamilton Niagara Haldimand Brant	*	*	12.7	(12.0–13.3)	12.7	(12.1–13.4)	12.3	(11.6–12.9)	12.9	(12.3–13.6)
	3505 Central West	*	*	14.7	(13.9–15.6)	15.5	(14.7–16.3)	15.7	(14.9–16.5)	13.9	(13.1–14.6)
	3506 Mississauga Halton	*	*	16.4	(15.6–17.2)	16.4	(15.6–17.1)	16.9	(16.1–17.7)	15.6	(14.9–16.3)
	3507 Toronto Central	*	*	16.8	(16.1–17.6)	16.9	(16.2–17.7)	17.8	(17.0–18.6)	18.0	(17.2–18.8)
	3508 Central	*	*	17.9	(17.2–18.5)	18.1	(17.4–18.8)	18.8	(18.1–19.5)	17.0	(16.3–17.6)
	3509 Central East	*	*	15.0	(14.4–15.7)	15.0	(14.3–15.7)	15.1	(14.4–15.7)	15.9	(15.2–16.6)
	3510 South East	*	*	12.5	(11.4–13.7)	15.1	(13.8–16.3)	13.0	(11.9–14.2)	14.2	(12.9–15.4)
	3511 Champlain	*	*	16.7	(15.9–17.5)	15.4	(14.6–16.1)	15.7	(14.9–16.5)	14.9	(14.1–15.7)
	3512 North Simcoe Muskoka	*	*	12.1	(11.0–13.3)	13.3	(12.1–14.5)	12.5	(11.3–13.7)	12.8	(11.6–14.0)
	3513 North East	*	*	11.9	(10.9–13.0)	13.7	(12.5–14.8)	12.3	(11.2–13.4)	12.3	(11.3–13.4)
	3514 North West	*	*	12.5	(11.0–14.0)	10.8	(9.4–12.2)	10.4	(9.1–11.8)	8.8	(7.5–10.0)

continued

Table B-3. Assisted Delivery Rate (Overall), by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		*	*	*	*	*	*	8.2	(7.7–8.8)	8.7	(8.2–9.3)
4610 Winnipeg		*	*	*	*	*	*	9.0	(8.2–9.8)	10.0	(9.2–10.8)
4630 Interlake		*	*	*	*	*	*	7.4	(5.3–9.5)	8.8	(6.7–11.0)
4640 Central		*	*	*	*	*	*	5.2	(3.8–6.5)	5.4	(4.1–6.7)
Saskatchewan		*	*	17.3	(16.5–18.1)	16.9	(16.1–17.6)	16.7	(15.9–17.5)	15.5	(14.8–16.2)
4704 Regina		*	*	18.2	(16.6–19.8)	17.3	(15.7–18.8)	14.3	(12.8–15.8)	13.2	(11.8–14.6)
4706 Saskatoon		*	*	19.8	(18.2–21.3)	18.7	(17.2–20.2)	20.2	(18.6–21.7)	17.3	(15.8–18.8)
4709 Prince Albert		*	*	13.6	(11.3–16.0)	15.6	(13.2–17.9)	16.0	(13.5–18.4)	14.9	(12.5–17.3)
Alberta		*	*	18.1	(17.7–18.6)	17.9	(17.5–18.4)	17.5	(17.1–17.9)	16.7	(16.3–17.1)
4820 Chinook		*	*	16.1	(14.2–17.9)	14.3	(12.6–16.0)	14.5	(12.7–16.2)	14.7	(13.0–16.4)
4821 Palliser		*	*	8.7	(7.0–10.5)	11.6	(9.6–13.5)	10.5	(8.6–12.4)	7.8	(6.1–9.6)
4822 Calgary		*	*	23.1	(22.2–23.9)	23.6	(22.8–24.4)	22.9	(22.1–23.7)	22.6	(21.8–23.4)
4823 David Thompson		*	*	7.9	(6.9–8.9)	10.3	(9.1–11.4)	8.6	(7.5–9.7)	8.3	(7.3–9.3)
4824 East Central		*	*	18.6	(16.1–21.2)	20.2	(17.5–22.9)	25.8	(23.0–28.7)	23.3	(20.5–26.0)
4825 Capital		*	*	18.1	(17.3–18.9)	17.0	(16.2–17.8)	16.6	(15.8–17.4)	14.5	(13.8–15.2)
4826 Aspen		*	*	16.9	(15.1–18.6)	15.6	(13.9–17.3)	13.7	(12.1–15.3)	13.6	(12.0–15.2)
4827 Peace Country		*	*	10.7	(9.1–12.2)	7.9	(6.5–9.2)	6.8	(5.6–8.1)	9.9	(8.5–11.4)
British Columbia		16.0	(15.6–16.4)	15.8	(15.4–16.3)	15.7	(15.3–16.1)	15.3	(14.8–15.7)	15.1	(14.7–15.5)
5911 East Kootenay		14.9	(11.7–18.0)	11.0	(8.2–13.8)	14.0	(10.8–17.2)	9.0	(6.3–11.7)	8.2	(5.7–10.7)
5912 Kootenay Boundary		10.0	(7.1–12.8)	9.2	(6.3–12.1)	9.1	(6.3–11.9)	10.0	(7.1–12.8)	11.0	(8.1–13.9)
5913 Okanagan		12.2	(10.7–13.7)	12.1	(10.6–13.6)	12.1	(10.6–13.6)	13.6	(12.0–15.2)	13.1	(11.5–14.6)
5914 Thompson/Cariboo/Shuswap		10.6	(8.9–12.3)	9.8	(8.1–11.5)	10.5	(8.8–12.3)	11.1	(9.4–12.9)	11.3	(9.6–13.1)
5921 Fraser East		18.4	(16.8–20.0)	16.7	(15.1–18.3)	15.0	(13.6–16.5)	15.4	(13.9–16.9)	13.0	(11.6–14.4)
5922 Fraser North		14.9	(13.8–16.0)	17.6	(16.4–18.8)	17.9	(16.7–19.1)	17.4	(16.2–18.6)	16.8	(15.6–18.0)
5923 Fraser South		20.7	(19.5–21.8)	20.2	(19.1–21.3)	20.1	(19.0–21.2)	20.1	(19.0–21.3)	19.3	(18.2–20.4)
5931 Richmond		19.2	(16.9–21.6)	20.3	(18.0–22.7)	19.4	(16.9–21.9)	16.8	(14.6–19.0)	15.6	(13.4–17.8)
5932 Vancouver		22.5	(21.2–23.8)	20.5	(19.2–21.7)	20.4	(19.2–21.6)	18.8	(17.6–20.1)	19.9	(18.6–21.1)
5933 North Shore		16.5	(14.7–18.4)	15.8	(14.0–17.6)	14.2	(12.5–15.9)	13.8	(12.1–15.5)	14.4	(12.6–16.2)
5941 South Vancouver Island		8.1	(6.8–9.4)	8.8	(7.5–10.2)	10.1	(8.7–11.4)	9.1	(7.8–10.5)	10.3	(8.8–11.7)
5942 Central Vancouver Island		12.1	(10.4–13.8)	10.6	(8.9–12.2)	10.7	(9.0–12.3)	8.8	(7.3–10.3)	9.0	(7.5–10.5)
5943 North Vancouver Island		10.9	(8.7–13.2)	10.0	(7.8–12.2)	10.6	(8.3–13.0)	13.8	(11.2–16.5)	12.9	(10.3–15.4)
5951 Northwest		12.6	(10.2–15.0)	14.7	(12.1–17.4)	12.9	(10.4–15.5)	10.9	(8.5–13.3)	13.4	(10.8–16.0)
5952 Northern Interior		9.3	(7.6–11.0)	9.5	(7.7–11.2)	10.5	(8.7–12.2)	10.5	(8.7–12.3)	10.9	(9.1–12.7)
Yukon Territory		9.3	(5.6–13.0)	15.7	(11.0–20.3)	11.6	(7.6–15.5)	11.8	(7.8–15.9)	8.3	(4.8–11.8)
Northwest Territories		*	*	6.3	(4.2–8.4)	6.6	(4.5–8.6)	7.3	(5.1–9.5)	8.0	(5.8–10.3)
Nunavut		*	*	*	*	**	**	2.0	(0.9–3.1)	2.6	(1.3–3.8)

Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data are not shown, since the ICD-10-CA and CCI coding classification system had not yet been adopted by the province or territory. Nunavut did not submit data to CIHI in 2002–2003.

** Data were suppressed due to rate instability or under-reporting. Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-4. Assisted Delivery Rate (Vacuum Extraction), by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		9.4	(8.4–10.4)	9.7	(8.7–10.7)	10.6	(9.5–11.6)	9.7	(8.6–10.7)	10.8	(9.7–11.9)
	1011 Eastern, N.L.	10.2	(8.8–11.5)	11.9	(10.5–13.4)	11.7	(10.2–13.1)	10.7	(9.2–12.1)	11.5	(10.0–12.9)
	1012 Central, N.L.	9.6	(7.2–12.1)	7.9	(5.8–10.0)	8.8	(6.5–11.2)	9.7	(7.3–12.2)	9.4	(6.8–12.1)
	1013 Western, N.L.	8.0	(5.6–10.4)	7.2	(4.9–9.6)	10.7	(8.0–13.4)	10.1	(7.4–12.8)	13.0	(9.8–16.3)
Prince Edward Island		3.7	(2.5–4.9)	5.4	(4.0–6.8)	3.8	(2.6–5.0)	4.8	(3.4–6.1)	3.9	(2.6–5.2)
Nova Scotia		7.0	(6.4–7.7)	9.4	(8.6–10.1)	9.9	(9.2–10.7)	8.4	(7.7–9.1)	7.2	(6.6–7.9)
	1201 Zone 1, N.S.	5.2	(3.6–6.8)	5.7	(4.0–7.3)	6.4	(4.6–8.2)	4.1	(2.6–5.6)	4.4	(2.8–6.0)
	1202 Zone 2, N.S.	3.7	(2.1–5.2)	3.3	(1.8–4.9)	3.2	(1.7–4.8)	3.5	(1.9–5.1)	2.1	(0.9–3.4)
	1203 Zone 3, N.S.	4.7	(3.1–6.3)	3.7	(2.2–5.1)	6.6	(4.8–8.5)	8.6	(6.4–10.7)	4.9	(3.3–6.5)
	1204 Zone 4, N.S.	15.7	(12.8–18.6)	18.8	(15.6–22.0)	18.8	(15.7–21.9)	12.6	(9.9–15.4)	14.2	(11.4–17.1)
	1205 Zone 5, N.S.	10.1	(8.0–12.2)	16.1	(13.4–18.7)	16.2	(13.6–18.9)	15.6	(13.0–18.2)	14.1	(11.7–16.6)
	1206 Zone 6, N.S.	6.0	(5.1–6.8)	9.0	(7.9–10.0)	9.0	(8.0–10.1)	7.4	(6.4–8.4)	6.0	(5.1–6.9)
New Brunswick		*	*	*	*	9.5	(8.7–10.4)	10.4	(9.5–11.2)	10.1	(9.3–11.0)
	1301 Region 1, N.B. (Moncton area)	*	*	*	*	8.5	(7.0–10.0)	8.8	(7.2–10.4)	7.1	(5.7–8.5)
	1302 Region 2, N.B. (Saint John area)	*	*	*	*	10.8	(9.1–12.4)	12.8	(10.9–14.6)	15.7	(13.7–17.7)
	1303 Region 3, N.B. (Fredericton area)	*	*	*	*	10.1	(8.4–11.8)	9.7	(8.0–11.3)	9.2	(7.5–10.8)
	1306 Region 6, N.B. (Bathurst area)	*	*	*	*	2.8	(1.2–4.4)	**	**	**	**
Quebec		11.0	(10.8–11.3)	11.3	(11.0–11.6)	11.1	(10.9–11.4)	10.5	(10.2–10.7)	10.1	(9.9–10.4)
	2401 Bas-Saint-Laurent	17.6	(15.5–19.6)	15.3	(13.2–17.4)	17.3	(15.2–19.4)	16.1	(14.0–18.2)	17.0	(14.9–19.0)
	2402 Saguenay-Lac-Saint-Jean	15.1	(13.6–16.7)	18.6	(16.9–20.4)	16.0	(14.4–17.7)	16.4	(14.7–18.1)	14.6	(13.0–16.2)
	2403 Capitale nationale	16.3	(15.2–17.4)	16.4	(15.3–17.5)	16.9	(15.7–18.0)	14.9	(13.9–16.0)	16.4	(15.4–17.5)
	2404 Mauricie et Centre-du-Québec	15.4	(14.1–16.6)	16.2	(15.0–17.5)	15.8	(14.5–17.1)	13.8	(12.6–14.9)	13.6	(12.4–14.7)
	2405 Estrie	8.0	(6.9–9.1)	7.5	(6.4–8.6)	7.3	(6.2–8.3)	6.1	(5.1–7.0)	5.9	(5.0–6.9)
	2406 Montréal	6.5	(6.1–6.8)	7.1	(6.7–7.5)	7.3	(6.8–7.7)	7.0	(6.5–7.4)	7.0	(6.6–7.4)
	2407 Outaouais	10.6	(9.3–12.0)	11.1	(9.8–12.3)	11.9	(10.6–13.1)	10.9	(9.7–12.1)	9.2	(8.1–10.3)
	2408 Abitibi-Témiscamingue	10.5	(8.8–12.2)	9.2	(7.5–10.9)	8.9	(7.3–10.6)	10.5	(8.7–12.3)	8.5	(6.9–10.1)
	2409 Côte-Nord	9.6	(7.6–11.7)	8.5	(6.4–10.5)	8.0	(6.0–9.9)	9.1	(7.1–11.2)	8.0	(6.1–10.0)
	2411 Gaspésie-Îles-de-la-Madeleine	16.8	(13.4–20.1)	10.6	(7.8–13.4)	9.3	(6.8–11.8)	12.3	(9.5–15.2)	11.1	(8.4–13.9)
	2412 Chaudière-Appalaches	14.3	(13.1–15.6)	13.2	(11.9–14.4)	12.7	(11.5–13.9)	12.3	(11.1–13.5)	12.7	(11.5–13.9)
	2413 Laval	14.8	(13.5–16.1)	14.4	(13.0–15.7)	15.6	(14.3–17.0)	13.9	(12.6–15.2)	12.8	(11.6–14.1)
	2414 Lanaudière	8.1	(7.1–9.1)	9.7	(8.6–10.8)	8.6	(7.6–9.7)	8.5	(7.5–9.5)	7.3	(6.4–8.3)
	2415 Laurentides	14.6	(13.5–15.7)	14.5	(13.4–15.6)	14.5	(13.4–15.6)	14.0	(12.9–15.1)	13.2	(12.2–14.3)
	2416 Montérégie	11.0	(10.4–11.6)	11.6	(10.9–12.2)	10.8	(10.2–11.4)	9.9	(9.4–10.5)	9.3	(8.8–9.9)
Ontario		*	*	9.4	(9.2–9.6)	9.8	(9.6–10.0)	9.9	(9.8–10.1)	9.5	(9.4–9.7)
	3501 Erie St. Clair	*	*	6.5	(5.9–7.2)	5.6	(5.0–6.2)	6.0	(5.3–6.6)	5.3	(4.7–6.0)
	3502 South West	*	*	1.5	(1.2–1.8)	1.6	(1.3–1.9)	1.9	(1.6–2.2)	1.7	(1.4–2.0)
	3503 Waterloo Wellington	*	*	3.8	(3.3–4.3)	4.9	(4.3–5.4)	4.3	(3.7–4.8)	4.4	(3.9–4.9)
	3504 Hamilton Niagara Haldimand Brant	*	*	8.1	(7.5–8.6)	8.8	(8.3–9.4)	7.9	(7.3–8.4)	8.0	(7.5–8.6)
	3505 Central West	*	*	10.4	(9.7–11.1)	11.8	(11.1–12.6)	11.7	(10.9–12.4)	10.5	(9.8–11.1)
	3506 Mississauga Halton	*	*	12.6	(11.9–13.3)	12.3	(11.6–13.0)	13.3	(12.6–14.0)	11.8	(11.2–12.5)
	3507 Toronto Central	*	*	10.8	(10.2–11.4)	11.5	(10.9–12.2)	12.8	(12.1–13.4)	13.0	(12.3–13.7)
	3508 Central	*	*	12.3	(11.8–12.9)	12.8	(12.2–13.4)	12.9	(12.3–13.5)	11.6	(11.0–12.1)
	3509 Central East	*	*	11.1	(10.5–11.7)	11.2	(10.6–11.8)	11.5	(10.9–12.1)	11.9	(11.3–12.5)
	3510 South East	*	*	9.0	(8.0–10.0)	10.9	(9.8–12.0)	8.6	(7.6–9.5)	9.6	(8.5–10.6)
	3511 Champlain	*	*	12.8	(12.1–13.5)	12.0	(11.3–12.6)	12.8	(12.1–13.5)	12.0	(11.3–12.7)
	3512 North Simcoe Muskoka	*	*	6.6	(5.7–7.5)	8.4	(7.4–9.4)	8.2	(7.2–9.2)	8.9	(7.8–9.9)
	3513 North East	*	*	8.3	(7.4–9.2)	10.2	(9.2–11.2)	9.2	(8.2–10.2)	8.9	(8.0–9.9)
	3514 North West	*	*	7.1	(6.0–8.3)	6.5	(5.4–7.6)	6.6	(5.5–7.7)	5.8	(4.8–6.9)

continued

Table B-4. Assisted Delivery Rate (Vacuum Extraction), by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		*	*	*	*	*	*	5.1	(4.7–5.5)	5.5	(5.1–6.0)
4610	Winnipeg	*	*	*	*	*	*	5.4	(4.8–6.0)	6.3	(5.7–7.0)
4630	Interlake	*	*	*	*	*	*	5.1	(3.4–6.9)	6.3	(4.4–8.1)
4640	Central	*	*	*	*	*	*	4.0	(2.8–5.2)	4.2	(3.0–5.4)
Saskatchewan		*	*	12.9	(12.2–13.6)	13.2	(12.5–13.9)	13.1	(12.4–13.8)	11.5	(10.8–12.1)
4704	Regina	*	*	10.0	(8.7–11.3)	10.8	(9.5–12.1)	8.5	(7.4–9.7)	7.1	(6.0–8.2)
4706	Saskatoon	*	*	14.9	(13.5–16.3)	15.3	(13.9–16.6)	16.2	(14.8–17.7)	13.7	(12.3–15.0)
4709	Prince Albert	*	*	12.6	(10.4–14.8)	14.8	(12.4–17.1)	15.5	(13.1–17.9)	14.3	(11.9–16.7)
Alberta		*	*	13.3	(12.9–13.6)	13.3	(12.9–13.7)	12.5	(12.1–12.9)	11.7	(11.4–12.1)
4820	Chinook	*	*	14.0	(12.2–15.7)	12.0	(10.4–13.6)	11.3	(9.8–12.9)	11.2	(9.6–12.7)
4821	Palliser	*	*	7.9	(6.2–9.6)	10.1	(8.2–11.9)	8.2	(6.5–9.9)	7.3	(5.6–8.9)
4822	Calgary	*	*	18.2	(17.5–19.0)	19.3	(18.5–20.0)	18.3	(17.6–19.1)	17.8	(17.0–18.5)
4823	David Thompson	*	*	4.0	(3.3–4.7)	5.7	(4.8–6.5)	5.1	(4.3–6.0)	5.1	(4.3–5.9)
4824	East Central	*	*	14.1	(11.8–16.4)	12.4	(10.3–14.6)	17.3	(14.8–19.8)	14.8	(12.5–17.1)
4825	Capital	*	*	11.3	(10.6–11.9)	10.5	(9.8–11.1)	9.2	(8.6–9.8)	7.3	(6.8–7.9)
4826	Aspen	*	*	12.2	(10.7–13.7)	11.9	(10.4–13.5)	10.9	(9.5–12.4)	10.4	(9.0–11.8)
4827	Peace Country	*	*	9.8	(8.3–11.3)	7.0	(5.8–8.3)	6.4	(5.2–7.7)	8.9	(7.5–10.3)
British Columbia		10.0	(9.6–10.3)	10.1	(9.7–10.4)	9.9	(9.5–10.2)	9.8	(9.5–10.2)	9.6	(9.3–10.0)
5911	East Kootenay	13.0	(10.0–16.0)	9.4	(6.8–12.0)	12.4	(9.4–15.5)	7.3	(4.9–9.8)	7.3	(4.9–9.7)
5912	Kootenay Boundary	6.0	(3.8–8.3)	5.2	(3.0–7.5)	6.8	(4.3–9.3)	6.9	(4.5–9.3)	8.9	(6.3–11.6)
5913	Okanagan	7.9	(6.7–9.1)	8.6	(7.3–9.9)	8.6	(7.3–10.0)	10.1	(8.6–11.5)	10.1	(8.7–11.5)
5914	Thompson/Cariboo/Shuswap	7.8	(6.3–9.3)	7.0	(5.6–8.5)	6.7	(5.3–8.1)	7.4	(6.0–8.9)	8.4	(6.9–10.0)
5921	Fraser East	11.0	(9.7–12.4)	10.7	(9.4–12.0)	9.8	(8.5–11.0)	10.0	(8.8–11.3)	8.2	(7.1–9.4)
5922	Fraser North	9.0	(8.1–9.9)	11.2	(10.2–12.2)	11.2	(10.2–12.2)	11.4	(10.3–12.4)	10.6	(9.6–11.5)
5923	Fraser South	14.3	(13.3–15.3)	13.2	(12.3–14.2)	13.4	(12.4–14.3)	13.8	(12.8–14.7)	12.9	(12.0–13.9)
5931	Richmond	13.9	(11.9–16.0)	14.8	(12.7–16.9)	13.8	(11.7–15.9)	12.2	(10.3–14.2)	11.0	(9.1–12.9)
5932	Vancouver	11.0	(10.1–12.0)	10.2	(9.3–11.2)	10.2	(9.3–11.1)	8.8	(7.9–9.7)	9.2	(8.4–10.1)
5933	North Shore	11.4	(9.8–12.9)	11.3	(9.7–12.8)	10.2	(8.7–11.7)	10.2	(8.7–11.7)	9.9	(8.4–11.4)
5941	South Vancouver Island	4.3	(3.4–5.3)	5.1	(4.0–6.1)	5.3	(4.3–6.3)	4.1	(3.2–5.0)	5.8	(4.7–6.9)
5942	Central Vancouver Island	4.9	(3.7–6.0)	4.8	(3.7–5.9)	4.4	(3.3–5.5)	4.6	(3.5–5.7)	4.6	(3.5–5.7)
5943	North Vancouver Island	8.0	(6.0–9.9)	8.8	(6.7–10.8)	8.4	(6.2–10.5)	11.3	(8.9–13.8)	10.5	(8.2–12.8)
5951	Northwest	11.4	(9.1–13.6)	12.0	(9.6–14.4)	10.8	(8.5–13.2)	10.3	(8.0–12.6)	12.9	(10.3–15.5)
5952	Northern Interior	6.4	(5.0–7.9)	6.6	(5.2–8.1)	7.4	(5.8–8.9)	7.9	(6.3–9.5)	7.7	(6.1–9.2)
Yukon Territory		8.9	(5.2–12.5)	14.0	(9.6–18.4)	11.2	(7.3–15.1)	11.8	(7.8–15.9)	6.6	(3.5–9.8)
Northwest Territories		*	*	4.2	(2.5–5.9)	4.8	(3.0–6.6)	5.3	(3.4–7.2)	6.9	(4.8–9.1)
Nunavut		*	*	*	*	**	**	1.4	(0.5–2.3)	1.6	(0.6–2.6)

Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data are not shown, since the ICD-10-CA and CCI coding classification system had not yet been adopted by the province or territory. Nunavut did not submit data to CIHI in 2002–2003.

** Data were suppressed due to rate instability or under-reporting. Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-5. Assisted Delivery Rate (Forceps), by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		8.9	(8.0–9.9)	6.7	(5.8–7.5)	7.1	(6.2–7.9)	7.2	(6.3–8.1)	5.7	(4.8–6.5)
	1011 Eastern, N.L.	9.3	(7.9–10.6)	6.7	(5.6–7.8)	7.9	(6.7–9.1)	8.8	(7.5–10.1)	6.9	(5.7–8.0)
	1012 Central, N.L.	10.7	(8.1–13.2)	8.0	(5.9–10.2)	7.6	(5.4–9.8)	7.7	(5.5–10.0)	6.9	(4.6–9.2)
	1013 Western, N.L.	9.2	(6.6–11.7)	8.9	(6.3–11.5)	6.9	(4.6–9.1)	4.3	(2.5–6.1)	2.2	(0.8–3.6)
Prince Edward Island		2.4	(1.4–3.4)	2.0	(1.1–2.9)	2.9	(1.8–3.9)	3.6	(2.4–4.9)	2.4	(1.4–3.5)
Nova Scotia		5.6	(5.0–6.1)	5.3	(4.7–5.8)	4.7	(4.1–5.2)	5.2	(4.6–5.7)	5.2	(4.7–5.8)
	1201 Zone 1, N.S.	6.1	(4.4–7.8)	5.2	(3.6–6.9)	7.5	(5.6–9.5)	4.7	(3.1–6.3)	5.7	(3.9–7.5)
	1202 Zone 2, N.S.	9.0	(6.6–11.3)	8.9	(6.5–11.3)	4.6	(2.8–6.5)	5.1	(3.2–7.1)	5.8	(3.8–7.8)
	1203 Zone 3, N.S.	4.6	(3.0–6.1)	4.5	(2.8–6.1)	4.4	(2.9–6.0)	5.8	(4.0–7.6)	6.5	(4.7–8.3)
	1204 Zone 4, N.S.	1.5	(0.5–2.5)	2.6	(1.3–3.8)	3.4	(2.0–4.9)	4.5	(2.8–6.2)	1.7	(0.7–2.8)
	1205 Zone 5, N.S.	2.6	(1.5–3.6)	2.0	(1.0–3.0)	**	**	**	**	**	**
	1206 Zone 6, N.S.	6.8	(5.9–7.7)	6.2	(5.3–7.1)	5.3	(4.5–6.2)	6.5	(5.6–7.4)	6.7	(5.8–7.7)
New Brunswick		*	*	*	*	4.3	(3.8–4.9)	4.6	(4.0–5.2)	3.7	(3.2–4.3)
	1301 Region 1, N.B. (Moncton area)	*	*	*	*	2.4	(1.6–3.2)	2.7	(1.8–3.6)	1.8	(1.1–2.5)
	1302 Region 2, N.B. (Saint John area)	*	*	*	*	2.3	(1.5–3.1)	2.8	(1.9–3.8)	1.1	(0.5–1.6)
	1303 Region 3, N.B. (Fredericton area)	*	*	*	*	10.1	(8.3–11.8)	10.4	(8.7–12.1)	8.8	(7.2–10.4)
	1306 Region 6, N.B. (Bathurst area)	*	*	*	*	4.8	(2.7–6.9)	**	**	**	**
Quebec		4.0	(3.8–4.1)	3.6	(3.4–3.7)	3.3	(3.1–3.4)	3.2	(3.1–3.4)	3.0	(2.9–3.2)
	2401 Bas-Saint-Laurent	1.2	(0.6–1.8)	1.0	(0.4–1.5)	0.7	(0.3–1.2)	**	**	**	**
	2402 Saguenay-Lac-Saint-Jean	1.9	(1.3–2.5)	1.0	(0.5–1.4)	0.8	(0.4–1.2)	1.0	(0.6–1.5)	1.2	(0.7–1.7)
	2403 Capitale nationale	3.9	(3.3–4.4)	3.3	(2.7–3.8)	2.6	(2.1–3.1)	1.4	(1.0–1.7)	1.4	(1.1–1.8)
	2404 Mauricie et Centre-du-Québec	2.5	(1.9–3.0)	2.3	(1.8–2.8)	2.7	(2.1–3.2)	2.0	(1.5–2.5)	2.3	(1.8–2.8)
	2405 Estrie	12.0	(10.7–13.3)	13.4	(12.0–14.8)	10.9	(9.6–12.1)	11.0	(9.7–12.3)	10.4	(9.1–11.6)
	2406 Montréal	5.3	(4.9–5.7)	4.2	(3.9–4.5)	4.0	(3.7–4.3)	4.2	(3.9–4.5)	4.2	(3.9–4.5)
	2407 Outaouais	4.9	(3.9–5.8)	5.5	(4.7–6.4)	4.8	(3.9–5.6)	3.9	(3.2–4.7)	4.1	(3.3–4.8)
	2408 Abitibi-Témiscamingue	4.1	(3.0–5.2)	4.1	(3.0–5.3)	2.6	(1.7–3.6)	3.8	(2.7–4.9)	3.9	(2.8–5.1)
	2409 Côte-Nord	2.2	(1.1–3.2)	2.3	(1.2–3.3)	2.3	(1.2–3.3)	3.2	(2.0–4.5)	2.9	(1.7–4.1)
	2411 Gaspésie-Îles-de-la-Madeleine	2.3	(1.0–3.7)	2.5	(1.1–4.0)	**	**	**	**	**	**
	2412 Chaudière-Appalaches	2.4	(1.9–3.0)	2.8	(2.2–3.5)	2.4	(1.8–2.9)	2.2	(1.6–2.7)	1.6	(1.1–2.0)
	2413 Laval	3.3	(2.7–4.0)	2.6	(2.0–3.2)	2.0	(1.5–2.5)	2.2	(1.6–2.7)	2.0	(1.5–2.5)
	2414 Lanaudière	3.2	(2.6–3.9)	2.7	(2.1–3.3)	2.4	(1.8–3.0)	2.9	(2.3–3.5)	2.6	(2.0–3.1)
	2415 Laurentides	1.9	(1.4–2.3)	1.9	(1.5–2.3)	1.3	(1.0–1.7)	1.2	(0.9–1.6)	0.8	(0.6–1.1)
	2416 Montérégie	3.2	(2.9–3.6)	2.9	(2.6–3.2)	3.2	(2.9–3.6)	3.3	(2.9–3.6)	2.9	(2.6–3.2)
Ontario		*	*	5.0	(4.9–5.1)	4.4	(4.3–4.6)	4.3	(4.2–4.4)	4.0	(3.9–4.2)
	3501 Erie St. Clair	*	*	12.0	(11.1–12.9)	11.0	(10.1–11.8)	9.5	(8.7–10.3)	7.0	(6.3–7.7)
	3502 South West	*	*	9.8	(9.1–10.5)	7.9	(7.2–8.5)	8.8	(8.1–9.5)	7.4	(6.8–8.0)
	3503 Waterloo Wellington	*	*	8.7	(8.0–9.4)	8.9	(8.1–9.6)	7.1	(6.4–7.7)	7.0	(6.4–7.7)
	3504 Hamilton Niagara Haldimand Brant	*	*	3.9	(3.5–4.3)	3.3	(2.9–3.6)	3.8	(3.5–4.2)	4.3	(3.9–4.7)
	3505 Central West	*	*	3.4	(3.0–3.8)	2.9	(2.5–3.2)	2.9	(2.5–3.2)	2.2	(1.9–2.5)
	3506 Mississauga Halton	*	*	3.4	(3.1–3.8)	3.0	(2.7–3.4)	2.7	(2.3–3.0)	2.8	(2.5–3.1)
	3507 Toronto Central	*	*	5.0	(4.6–5.4)	4.6	(4.1–5.0)	4.1	(3.7–4.5)	4.0	(3.6–4.4)
	3508 Central	*	*	4.9	(4.5–5.3)	4.5	(4.2–4.9)	5.0	(4.6–5.3)	4.7	(4.3–5.0)
	3509 Central East	*	*	3.4	(3.1–3.7)	3.0	(2.7–3.4)	2.7	(2.4–3.0)	3.1	(2.8–3.4)
	3510 South East	*	*	2.9	(2.3–3.5)	2.6	(2.0–3.1)	3.3	(2.7–3.9)	3.5	(2.8–4.1)
	3511 Champlain	*	*	2.8	(2.5–3.2)	2.3	(2.0–2.6)	2.0	(1.7–2.3)	2.0	(1.7–2.3)
	3512 North Simcoe Muskoka	*	*	4.7	(4.0–5.5)	3.7	(3.0–4.4)	3.5	(2.8–4.1)	3.1	(2.4–3.7)
	3513 North East	*	*	2.5	(2.0–3.0)	2.3	(1.8–2.8)	2.1	(1.6–2.6)	2.4	(1.9–2.9)
	3514 North West	*	*	4.8	(3.8–5.7)	3.9	(3.0–4.8)	3.5	(2.7–4.3)	2.7	(2.0–3.4)

continued

Table B-5. Assisted Delivery Rate (Forceps), by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		*	*	*	*	*	*	2.7	(2.4–3.0)	2.7	(2.4–3.0)
4610 Winnipeg		*	*	*	*	*	*	3.1	(2.7–3.6)	3.2	(2.7–3.6)
4630 Interlake		*	*	*	*	*	*	2.1	(1.0–3.3)	1.8	(0.8–2.8)
4640 Central		*	*	*	*	*	*	0.8	(0.3–1.4)	0.9	(0.4–1.5)
Saskatchewan		*	*	2.6	(2.3–3.0)	2.1	(1.8–2.4)	2.3	(2.0–2.6)	2.9	(2.6–3.3)
4704 Regina		*	*	5.9	(4.9–6.9)	4.9	(4.0–5.7)	4.2	(3.3–5.0)	4.6	(3.7–5.4)
4706 Saskatoon		*	*	2.4	(1.8–3.0)	1.1	(0.7–1.5)	1.8	(1.3–2.3)	2.0	(1.5–2.6)
4709 Prince Albert		*	*	**	**	**	**	**	**	**	**
Alberta		*	*	4.0	(3.8–4.2)	3.3	(3.1–3.5)	3.6	(3.3–3.8)	3.7	(3.5–3.9)
4820 Chinook		*	*	1.8	(1.1–2.4)	2.0	(1.3–2.6)	2.0	(1.3–2.7)	2.7	(1.9–3.5)
4821 Palliser		*	*	**	**	**	**	1.1	(0.5–1.8)	**	**
4822 Calgary		*	*	4.4	(4.0–4.8)	2.9	(2.6–3.2)	2.9	(2.6–3.2)	3.3	(3.0–3.6)
4823 David Thompson		*	*	3.7	(3.0–4.4)	3.9	(3.2–4.6)	3.1	(2.4–3.7)	2.7	(2.1–3.3)
4824 East Central		*	*	3.2	(2.0–4.3)	6.3	(4.7–7.9)	6.4	(4.8–8.0)	6.5	(4.9–8.1)
4825 Capital		*	*	5.4	(4.9–5.9)	4.7	(4.3–5.2)	5.7	(5.2–6.2)	5.9	(5.4–6.4)
4826 Aspen		*	*	3.7	(2.8–4.6)	2.8	(2.0–3.5)	2.1	(1.5–2.8)	2.1	(1.4–2.8)
4827 Peace Country		*	*	0.8	(0.3–1.3)	0.6	(0.2–1.0)	**	**	0.6	(0.2–1.0)
British Columbia		5.3	(5.1–5.6)	5.2	(4.9–5.4)	5.0	(4.7–5.2)	4.5	(4.2–4.7)	4.4	(4.2–4.7)
5911 East Kootenay		**	**	**	**	**	**	**	**	**	**
5912 Kootenay Boundary		3.0	(1.4–4.6)	2.4	(0.8–3.9)	**	**	**	**	**	**
5913 Okanagan		3.6	(2.8–4.5)	2.8	(2.0–3.6)	2.5	(1.8–3.3)	2.5	(1.8–3.3)	2.0	(1.3–2.6)
5914 Thompson/Cariboo/Shuswap		2.1	(1.3–2.9)	2.0	(1.3–2.8)	2.9	(2.0–3.8)	3.0	(2.0–3.9)	2.2	(1.4–3.0)
5921 Fraser East		5.5	(4.6–6.5)	4.9	(3.9–5.8)	3.9	(3.0–4.7)	4.1	(3.3–4.9)	3.4	(2.7–4.2)
5922 Fraser North		5.7	(5.0–6.4)	6.2	(5.4–6.9)	6.1	(5.4–6.9)	5.3	(4.6–6.0)	5.4	(4.7–6.1)
5923 Fraser South		5.3	(4.7–6.0)	6.2	(5.5–6.8)	6.0	(5.3–6.6)	5.1	(4.5–5.7)	5.2	(4.5–5.8)
5931 Richmond		5.1	(3.8–6.4)	5.0	(3.7–6.3)	4.3	(3.0–5.6)	4.0	(2.8–5.1)	3.4	(2.3–4.6)
5932 Vancouver		11.2	(10.2–12.1)	9.7	(8.8–10.6)	9.0	(8.2–9.9)	8.7	(7.8–9.6)	9.1	(8.2–10.0)
5933 North Shore		4.0	(3.0–5.0)	4.1	(3.1–5.0)	3.3	(2.4–4.1)	2.9	(2.0–3.7)	3.6	(2.6–4.5)
5941 South Vancouver Island		3.6	(2.7–4.4)	3.6	(2.7–4.5)	4.5	(3.5–5.4)	4.6	(3.6–5.6)	4.1	(3.1–5.0)
5942 Central Vancouver Island		6.5	(5.2–7.7)	5.1	(3.9–6.3)	5.5	(4.3–6.7)	3.9	(2.9–4.9)	3.7	(2.7–4.7)
5943 North Vancouver Island		1.8	(0.8–2.7)	**	**	1.4	(0.5–2.3)	1.8	(0.8–2.9)	1.8	(0.8–2.8)
5951 Northwest		**	**	2.4	(1.3–3.6)	2.1	(1.0–3.2)	**	**	**	**
5952 Northern Interior		2.2	(1.3–3.0)	2.5	(1.6–3.4)	2.3	(1.4–3.2)	1.6	(0.8–2.3)	1.6	(0.9–2.3)
Yukon Territory		**	**	**	**	**	**	**	**	**	**
Northwest Territories		*	*	**	**	**	**	**	**	**	**
Nunavut		*	*	*	*	**	**	**	**	**	**

Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data are not shown, since the ICD-10-CA and CCI coding classification system had not yet been adopted by the province or territory. Nunavut did not submit data to CIHI in 2002–2003.

** Data were suppressed due to rate instability or under-reporting. Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-6. Total Caesarean Section Rate, by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		26.6	(25.3–27.8)	24.8	(23.6–26.1)	27.9	(26.6–29.2)	28.7	(27.4–30.1)	30.1	(28.8–31.5)
	1011 Eastern, N.L.	27.8	(26.1–29.6)	26.3	(24.6–28.0)	28.9	(27.1–30.6)	30.4	(28.6–32.2)	30.2	(28.5–32.0)
	1012 Central, N.L.	24.9	(21.8–27.9)	24.0	(21.1–26.9)	29.4	(26.3–32.6)	28.8	(25.6–32.0)	34.0	(30.6–37.5)
	1013 Western, N.L.	26.5	(23.2–29.9)	23.5	(20.2–26.9)	24.7	(21.4–28.0)	26.8	(23.4–30.3)	27.4	(23.7–31.0)
Prince Edward Island		27.8	(25.4–30.3)	26.8	(24.4–29.2)	30.3	(27.9–32.7)	33.5	(30.9–36.0)	29.8	(27.3–32.3)
Nova Scotia		25.2	(24.3–26.2)	27.2	(26.3–28.2)	27.6	(26.6–28.5)	27.9	(26.9–28.8)	28.0	(27.0–29.0)
	1201 Zone 1, N.S.	25.3	(22.6–27.9)	25.5	(22.8–28.3)	25.2	(22.5–28.0)	27.5	(24.6–30.4)	27.4	(24.4–30.4)
	1202 Zone 2, N.S.	20.9	(17.9–23.9)	22.9	(19.8–26.0)	22.2	(19.0–25.4)	24.0	(20.7–27.2)	26.1	(22.9–29.4)
	1203 Zone 3, N.S.	24.2	(21.5–27.0)	27.0	(24.1–30.0)	29.8	(26.9–32.7)	30.9	(27.9–33.9)	29.5	(26.6–32.3)
	1204 Zone 4, N.S.	28.0	(25.0–31.0)	26.6	(23.5–29.7)	25.9	(22.9–28.9)	29.8	(26.6–33.0)	27.0	(24.0–30.1)
	1205 Zone 5, N.S.	23.6	(21.0–26.1)	29.3	(26.5–32.0)	28.0	(25.3–30.7)	28.4	(25.7–31.2)	29.0	(26.3–31.7)
	1206 Zone 6, N.S.	26.0	(24.7–27.4)	28.1	(26.7–29.6)	28.8	(27.4–30.2)	27.5	(26.1–28.9)	28.1	(26.6–29.5)
New Brunswick		*	*	*	*	28.6	(27.6–29.7)	26.6	(25.5–27.6)	28.7	(27.6–29.7)
	1301 Region 1, N.B. (Moncton area)	*	*	*	*	25.4	(23.4–27.4)	26.3	(24.2–28.3)	25.9	(23.8–27.9)
	1302 Region 2, N.B. (Saint John area)	*	*	*	*	25.4	(23.3–27.4)	26.6	(24.5–28.8)	25.3	(23.2–27.4)
	1303 Region 3, N.B. (Fredericton area)	*	*	*	*	31.4	(29.2–33.6)	29.0	(26.9–31.1)	32.3	(30.1–34.4)
	1306 Region 6, N.B. (Bathurst area)	*	*	*	*	32.3	(28.5–36.1)	**	**	26.0	(22.2–29.8)
Quebec		19.5	(19.2–19.8)	20.9	(20.6–21.2)	21.5	(21.2–21.8)	22.3	(22.0–22.6)	22.9	(22.6–23.2)
	2401 Bas-Saint-Laurent	19.9	(18.0–21.9)	23.4	(21.3–25.6)	24.2	(22.1–26.3)	24.6	(22.4–26.7)	24.7	(22.7–26.8)
	2402 Saguenay-Lac-Saint-Jean	16.8	(15.3–18.2)	20.1	(18.5–21.7)	20.3	(18.7–22.0)	22.2	(20.6–23.9)	21.3	(19.7–22.9)
	2403 Capitale nationale	19.7	(18.6–20.7)	20.4	(19.3–21.5)	22.0	(20.9–23.1)	21.7	(20.6–22.8)	23.6	(22.5–24.6)
	2404 Mauricie et Centre-du-Québec	19.4	(18.2–20.7)	19.4	(18.2–20.6)	19.9	(18.7–21.1)	21.9	(20.6–23.1)	22.6	(21.3–23.8)
	2405 Estrie	15.0	(13.6–16.3)	15.1	(13.8–16.5)	15.8	(14.5–17.2)	16.1	(14.7–17.4)	19.5	(18.0–20.9)
	2406 Montréal	21.0	(20.4–21.5)	21.9	(21.3–22.5)	22.7	(22.1–23.3)	23.2	(22.6–23.8)	23.1	(22.5–23.7)
	2407 Outaouais	19.6	(18.0–21.2)	20.4	(19.0–21.8)	22.4	(21.0–23.8)	23.7	(22.2–25.1)	24.4	(23.0–25.9)
	2408 Abitibi-Témiscamingue	17.0	(15.1–18.9)	18.7	(16.6–20.7)	20.1	(18.0–22.2)	22.7	(20.5–24.9)	23.9	(21.7–26.0)
	2409 Côte-Nord	20.4	(17.9–22.9)	25.4	(22.7–28.2)	22.2	(19.5–24.8)	24.3	(21.6–27.0)	23.4	(20.8–26.1)
	2411 Gaspésie-Îles-de-la-Madeleine	22.1	(18.8–25.5)	23.1	(19.8–26.5)	22.5	(19.3–25.6)	25.7	(22.5–29.0)	26.9	(23.6–30.3)
	2412 Chaudière-Appalaches	22.1	(20.8–23.4)	24.1	(22.7–25.5)	22.8	(21.4–24.1)	23.7	(22.4–25.1)	25.8	(24.5–27.2)
	2413 Laval	20.3	(19.0–21.6)	21.4	(20.0–22.8)	21.3	(20.0–22.6)	22.7	(21.3–24.1)	22.8	(21.5–24.1)
	2414 Lanaudière	19.1	(17.8–20.4)	20.6	(19.2–21.9)	20.7	(19.4–22.1)	22.1	(20.8–23.4)	21.3	(20.0–22.6)
	2415 Laurentides	17.0	(15.9–18.0)	18.7	(17.6–19.8)	21.1	(20.0–22.3)	20.6	(19.5–21.8)	21.3	(20.2–22.5)
	2416 Montérégie	19.0	(18.3–19.7)	21.0	(20.3–21.7)	21.4	(20.7–22.2)	22.0	(21.3–22.7)	22.9	(22.2–23.6)
Ontario		*	*	24.2	(24.0–24.5)	26.0	(25.8–26.3)	26.7	(26.5–27.0)	27.7	(27.5–28.0)
	3501 Erie St. Clair	*	*	22.5	(21.5–23.5)	24.6	(23.6–25.6)	24.0	(23.0–25.0)	25.5	(24.5–26.5)
	3502 South West	*	*	20.2	(19.3–21.0)	22.0	(21.1–22.8)	23.3	(22.4–24.2)	23.2	(22.4–24.1)
	3503 Waterloo Wellington	*	*	23.8	(22.8–24.8)	25.6	(24.6–26.5)	26.1	(25.1–27.1)	27.7	(26.7–28.7)
	3504 Hamilton Niagara Haldimand Brant	*	*	24.4	(23.7–25.1)	24.7	(24.0–25.4)	26.4	(25.7–27.2)	27.5	(26.8–28.3)
	3505 Central West	*	*	26.4	(25.5–27.3)	27.2	(26.3–28.0)	28.5	(27.6–29.3)	27.9	(27.1–28.7)
	3506 Mississauga Halton	*	*	22.2	(21.4–23.0)	23.8	(23.0–24.5)	24.5	(23.8–25.3)	25.2	(24.4–25.9)
	3507 Toronto Central	*	*	26.2	(25.5–27.0)	27.8	(27.0–28.6)	27.4	(26.6–28.2)	30.0	(29.2–30.8)
	3508 Central	*	*	24.6	(23.9–25.2)	26.6	(25.9–27.3)	26.3	(25.6–26.9)	28.4	(27.8–29.1)
	3509 Central East	*	*	25.7	(25.0–26.4)	28.2	(27.5–29.0)	29.2	(28.5–30.0)	30.3	(29.5–31.0)
	3510 South East	*	*	24.1	(22.8–25.4)	26.5	(25.2–27.8)	26.6	(25.3–27.9)	28.8	(27.4–30.1)
	3511 Champlain	*	*	23.9	(23.2–24.7)	26.6	(25.8–27.4)	28.1	(27.3–28.9)	27.8	(27.0–28.6)
	3512 North Simcoe Muskoka	*	*	24.1	(22.8–25.5)	29.7	(28.3–31.1)	29.8	(28.3–31.2)	30.0	(28.6–31.4)
	3513 North East	*	*	26.5	(25.3–27.7)	27.2	(25.9–28.4)	28.6	(27.3–29.9)	29.0	(27.8–30.3)
	3514 North West	*	*	21.4	(19.8–23.0)	22.3	(20.7–24.0)	22.7	(21.1–24.4)	22.8	(21.2–24.4)

continued

Table B-6. Total Caesarean Section Rate, by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		*	*	*	*	*	*	20.7	(20.0–21.3)	21.3	(20.6–22.0)
4610	Winnipeg	*	*	*	*	*	*	20.6	(19.6–21.6)	21.2	(20.3–22.2)
4630	Interlake	*	*	*	*	*	*	21.1	(18.2–24.0)	17.8	(15.2–20.4)
4640	Central	*	*	*	*	*	*	21.9	(19.7–24.1)	22.6	(20.4–24.8)
Saskatchewan		*	*	19.8	(19.0–20.5)	20.1	(19.3–20.8)	20.2	(19.5–21.0)	21.1	(20.4–21.9)
4704	Regina	*	*	17.6	(16.2–19.1)	17.9	(16.5–19.3)	18.5	(17.0–20.0)	20.0	(18.5–21.5)
4706	Saskatoon	*	*	21.1	(19.7–22.5)	19.5	(18.1–20.8)	20.7	(19.3–22.1)	23.2	(21.7–24.6)
4709	Prince Albert	*	*	15.4	(13.2–17.7)	16.9	(14.7–19.2)	14.5	(12.4–16.7)	18.5	(16.1–20.9)
Alberta		*	*	23.4	(23.0–23.9)	24.4	(24.0–24.8)	25.4	(25.0–25.8)	26.3	(25.8–26.7)
4820	Chinook	*	*	20.5	(18.7–22.3)	22.4	(20.6–24.1)	22.5	(20.6–24.3)	22.2	(20.4–24.0)
4821	Palliser	*	*	18.1	(16.0–20.3)	20.5	(18.3–22.8)	23.8	(21.5–26.2)	23.0	(20.6–25.4)
4822	Calgary	*	*	24.7	(24.0–25.5)	26.3	(25.6–27.0)	26.4	(25.7–27.1)	28.3	(27.5–29.0)
4823	David Thompson	*	*	24.3	(22.9–25.7)	23.3	(21.9–24.6)	27.4	(25.9–28.8)	26.9	(25.5–28.3)
4824	East Central	*	*	27.9	(25.4–30.4)	26.8	(24.3–29.3)	28.1	(25.6–30.7)	27.4	(24.9–29.8)
4825	Capital	*	*	22.9	(22.1–23.6)	23.7	(23.0–24.5)	25.1	(24.3–25.9)	25.5	(24.7–26.3)
4826	Aspen	*	*	23.3	(21.6–25.0)	24.2	(22.4–25.9)	23.5	(21.8–25.3)	25.0	(23.2–26.7)
4827	Peace Country	*	*	22.1	(20.2–23.9)	22.3	(20.5–24.1)	22.1	(20.3–24.0)	22.8	(21.0–24.6)
British Columbia		27.1	(26.6–27.5)	27.9	(27.4–28.3)	28.7	(28.3–29.2)	30.0	(29.5–30.4)	30.4	(29.9–30.8)
5911	East Kootenay	18.6	(15.4–21.7)	28.0	(24.6–31.4)	30.6	(27.1–34.2)	35.5	(31.8–39.1)	31.4	(27.8–34.9)
5912	Kootenay Boundary	24.5	(21.0–28.0)	29.3	(25.5–33.2)	24.9	(21.2–28.5)	24.0	(20.5–27.6)	23.3	(19.9–26.8)
5913	Okanagan	24.3	(22.6–25.9)	26.7	(25.0–28.5)	27.8	(26.0–29.6)	29.5	(27.7–31.3)	30.3	(28.5–32.1)
5914	Thompson/Cariboo/Shuswap	30.2	(28.1–32.3)	30.3	(28.1–32.4)	32.8	(30.6–34.9)	32.2	(30.1–34.4)	32.8	(30.7–35.0)
5921	Fraser East	24.6	(23.0–26.2)	26.5	(24.9–28.1)	26.4	(24.8–27.9)	28.9	(27.3–30.6)	28.0	(26.4–29.6)
5922	Fraser North	27.3	(26.2–28.5)	26.9	(25.7–28.1)	29.1	(27.9–30.3)	29.5	(28.3–30.8)	29.5	(28.3–30.7)
5923	Fraser South	27.4	(26.4–28.5)	28.3	(27.3–29.4)	29.4	(28.4–30.5)	30.5	(29.4–31.6)	31.3	(30.2–32.4)
5931	Richmond	30.4	(28.1–32.7)	27.8	(25.5–30.0)	30.6	(28.2–32.9)	29.8	(27.5–32.0)	32.7	(30.4–35.1)
5932	Vancouver	27.4	(26.2–28.6)	27.1	(26.0–28.3)	26.7	(25.5–27.8)	28.8	(27.6–30.0)	29.3	(28.1–30.4)
5933	North Shore	27.9	(26.0–29.7)	26.9	(25.1–28.8)	30.0	(28.2–31.9)	30.3	(28.4–32.2)	32.2	(30.3–34.2)
5941	South Vancouver Island	29.5	(27.8–31.3)	32.8	(31.0–34.6)	32.0	(30.3–33.8)	36.0	(34.2–37.8)	36.8	(34.9–38.6)
5942	Central Vancouver Island	27.2	(25.2–29.2)	27.6	(25.6–29.7)	28.7	(26.6–30.7)	27.3	(25.3–29.3)	29.1	(27.1–31.1)
5943	North Vancouver Island	25.5	(22.8–28.2)	26.1	(23.4–28.8)	28.0	(25.1–30.9)	32.0	(29.1–35.0)	26.5	(23.6–29.3)
5951	Northwest	25.9	(23.2–28.6)	30.2	(27.4–33.1)	27.1	(24.2–30.0)	27.3	(24.4–30.2)	26.8	(23.9–29.7)
5952	Northern Interior	28.8	(26.6–31.1)	27.7	(25.4–29.9)	26.5	(24.3–28.7)	28.3	(26.0–30.6)	28.3	(26.1–30.5)
Yukon Territory		25.9	(21.1–30.7)	22.4	(17.7–27.1)	24.2	(19.6–28.8)	27.1	(22.3–31.8)	27.2	(22.4–32.0)
Northwest Territories		*	*	21.6	(18.4–24.7)	23.4	(20.4–26.5)	22.3	(19.2–25.5)	24.8	(21.7–28.0)
Nunavut		*	*	*	*	10.6	(7.9–13.4)	9.9	(7.7–12.1)	8.2	(6.2–10.3)

Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data are not shown, since the ICD-10-CA and CCI coding classification system had not yet been adopted by the province or territory. Nunavut did not submit data to CIHI in 2002–2003.

** Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-7. Primary Caesarean Section Rate, by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		19.2	(18.0–20.4)	17.9	(16.7–19.1)	20.4	(19.2–21.6)	21.2	(20.0–22.5)	22.1	(20.8–23.4)
	1011 Eastern, N.L.	19.9	(18.2–21.5)	18.3	(16.7–19.9)	21.1	(19.5–22.8)	22.5	(20.8–24.2)	22.1	(20.4–23.8)
	1012 Central, N.L.	16.3	(13.5–19.1)	16.2	(13.6–18.9)	20.0	(17.0–23.0)	21.7	(18.6–24.7)	25.1	(21.7–28.5)
	1013 Western, N.L.	20.7	(17.5–23.9)	19.3	(16.0–22.5)	18.0	(14.9–21.0)	19.2	(16.0–22.5)	19.4	(16.0–22.8)
Prince Edward Island		20.6	(18.3–23.0)	19.0	(16.7–21.2)	22.4	(20.1–24.7)	25.7	(23.2–28.2)	22.0	(19.6–24.5)
Nova Scotia		18.7	(17.8–19.5)	20.6	(19.7–21.5)	20.4	(19.5–21.3)	20.2	(19.3–21.1)	20.0	(19.1–20.9)
	1201 Zone 1, N.S.	19.3	(16.8–21.9)	19.6	(17.0–22.2)	18.7	(16.1–21.4)	20.6	(17.8–23.4)	20.6	(17.8–23.5)
	1202 Zone 2, N.S.	14.9	(12.1–17.6)	16.2	(13.3–19.1)	15.8	(12.8–18.8)	16.9	(13.8–19.9)	18.4	(15.4–21.5)
	1203 Zone 3, N.S.	16.6	(14.0–19.1)	19.7	(16.9–22.6)	21.9	(19.1–24.7)	21.0	(18.1–23.8)	21.9	(19.1–24.6)
	1204 Zone 4, N.S.	20.1	(17.3–23.0)	18.2	(15.4–21.1)	18.1	(15.3–20.9)	20.2	(17.2–23.3)	17.7	(14.8–20.5)
	1205 Zone 5, N.S.	17.6	(15.1–20.0)	23.3	(20.6–26.1)	21.1	(18.5–23.8)	21.3	(18.7–24.0)	21.2	(18.5–23.8)
	1206 Zone 6, N.S.	19.5	(18.2–20.8)	21.7	(20.3–23.1)	21.5	(20.2–22.9)	20.2	(18.9–21.6)	19.8	(18.5–21.1)
New Brunswick		*	*	*	*	20.7	(19.7–21.7)	19.2	(18.2–20.2)	20.2	(19.1–21.2)
	1301 Region 1, N.B. (Moncton area)	*	*	*	*	18.4	(16.5–20.3)	19.4	(17.4–21.4)	17.7	(15.9–19.6)
	1302 Region 2, N.B. (Saint John area)	*	*	*	*	18.5	(16.6–20.5)	19.8	(17.8–21.9)	17.2	(15.3–19.2)
	1303 Region 3, N.B. (Fredericton area)	*	*	*	*	22.5	(20.4–24.6)	21.0	(19.0–23.0)	23.5	(21.4–25.6)
	1306 Region 6, N.B. (Bathurst area)	*	*	*	*	23.4	(19.7–27.1)	**	**	17.6	(14.1–21.1)
Quebec		14.6	(14.3–14.8)	15.4	(15.2–15.7)	15.8	(15.5–16.0)	16.0	(15.7–16.3)	16.2	(15.9–16.5)
	2401 Bas-Saint-Laurent	15.7	(13.9–17.6)	18.0	(16.0–20.1)	18.5	(16.5–20.5)	18.7	(16.7–20.7)	17.1	(15.2–19.0)
	2402 Saguenay-Lac-Saint-Jean	12.0	(10.7–13.3)	15.5	(14.0–17.0)	15.2	(13.7–16.7)	16.7	(15.1–18.2)	15.8	(14.3–17.3)
	2403 Capitale nationale	14.8	(13.8–15.8)	15.5	(14.5–16.5)	16.2	(15.2–17.2)	15.9	(14.9–16.9)	16.9	(15.9–17.9)
	2404 Mauricie et Centre-du-Québec	14.3	(13.2–15.4)	13.4	(12.3–14.5)	13.8	(12.7–15.0)	15.8	(14.6–16.9)	15.6	(14.4–16.7)
	2405 Estrie	12.5	(11.2–13.8)	12.9	(11.6–14.2)	12.6	(11.4–13.9)	13.1	(11.8–14.4)	14.3	(13.0–15.7)
	2406 Montréal	15.4	(14.9–16.0)	16.1	(15.6–16.7)	16.5	(15.9–17.0)	16.4	(15.8–17.0)	16.3	(15.8–16.8)
	2407 Outaouais	15.3	(13.8–16.8)	15.7	(14.4–17.0)	17.8	(16.4–19.2)	17.6	(16.2–18.9)	18.7	(17.4–20.1)
	2408 Abitibi-Témiscamingue	14.5	(12.6–16.4)	14.6	(12.7–16.6)	15.6	(13.7–17.6)	17.8	(15.7–19.9)	18.6	(16.5–20.7)
	2409 Côte-Nord	15.8	(13.5–18.2)	20.3	(17.6–23.0)	16.4	(14.0–18.9)	18.6	(16.0–21.1)	17.9	(15.4–20.4)
	2411 Gaspésie-Îles-de-la-Madeleine	17.2	(14.1–20.4)	18.5	(15.3–21.7)	16.6	(13.6–19.5)	20.2	(17.1–23.3)	22.8	(19.5–26.1)
	2412 Chaudière-Appalaches	16.6	(15.3–17.8)	17.4	(16.0–18.7)	15.3	(14.1–16.5)	16.0	(14.8–17.3)	16.9	(15.7–18.1)
	2413 Laval	14.2	(12.9–15.4)	15.5	(14.2–16.8)	15.2	(13.9–16.4)	16.5	(15.2–17.8)	15.5	(14.2–16.7)
	2414 Lanaudière	14.9	(13.7–16.2)	15.0	(13.8–16.3)	15.6	(14.4–16.9)	15.7	(14.5–17.0)	14.6	(13.5–15.8)
	2415 Laurentides	12.8	(11.8–13.8)	13.5	(12.5–14.5)	15.8	(14.7–16.9)	14.4	(13.4–15.4)	14.8	(13.8–15.9)
	2416 Montérégie	14.1	(13.4–14.7)	15.3	(14.7–16.0)	15.5	(14.8–16.1)	15.4	(14.7–16.0)	16.0	(15.3–16.6)
Ontario		*	*	17.4	(17.2–17.6)	18.7	(18.5–19.0)	19.0	(18.8–19.2)	19.4	(19.2–19.7)
	3501 Erie St. Clair	*	*	16.2	(15.3–17.1)	17.4	(16.4–18.4)	16.7	(15.8–17.6)	17.0	(16.0–18.0)
	3502 South West	*	*	14.7	(13.9–15.5)	16.2	(15.4–17.0)	16.8	(16.0–17.6)	16.4	(15.6–17.2)
	3503 Waterloo Wellington	*	*	17.9	(17.0–18.9)	19.2	(18.2–20.1)	19.1	(18.2–20.1)	19.5	(18.6–20.4)
	3504 Hamilton Niagara Haldimand Brant	*	*	17.5	(16.8–18.2)	17.5	(16.8–18.2)	19.0	(18.3–19.7)	19.5	(18.8–20.3)
	3505 Central West	*	*	18.2	(17.4–19.1)	19.0	(18.2–19.9)	19.8	(18.9–20.6)	18.8	(18.0–19.6)
	3506 Mississauga Halton	*	*	15.3	(14.6–16.0)	16.4	(15.6–17.1)	16.8	(16.1–17.5)	16.8	(16.1–17.5)
	3507 Toronto Central	*	*	20.2	(19.5–20.9)	20.9	(20.1–21.6)	20.4	(19.6–21.1)	22.0	(21.3–22.8)
	3508 Central	*	*	17.2	(16.6–17.8)	18.7	(18.0–19.3)	18.3	(17.6–18.9)	19.9	(19.2–20.5)
	3509 Central East	*	*	18.2	(17.5–18.8)	20.6	(19.9–21.3)	20.8	(20.2–21.5)	21.7	(21.0–22.4)
	3510 South East	*	*	16.8	(15.6–18.0)	18.8	(17.5–20.0)	18.2	(17.0–19.4)	20.2	(18.9–21.5)
	3511 Champlain	*	*	17.8	(17.0–18.5)	19.7	(18.9–20.4)	20.3	(19.6–21.1)	19.7	(18.9–20.5)
	3512 North Simcoe Muskoka	*	*	16.5	(15.2–17.7)	20.6	(19.3–21.9)	21.4	(20.0–22.7)	20.2	(18.9–21.5)
	3513 North East	*	*	19.3	(18.1–20.5)	19.5	(18.3–20.6)	21.2	(19.9–22.4)	20.9	(19.7–22.1)
	3514 North West	*	*	14.4	(13.0–15.9)	16.0	(14.4–17.5)	15.6	(14.1–17.1)	14.8	(13.4–16.3)

continued

Table B-7. Primary Caesarean Section Rate, by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		*	*	*	*	*	*	14.5	(13.9–15.1)	14.9	(14.3–15.5)
4610 Winnipeg		*	*	*	*	*	*	14.8	(13.9–15.7)	15.4	(14.6–16.3)
4630 Interlake		*	*	*	*	*	*	14.6	(12.0–17.3)	11.2	(8.9–13.5)
4640 Central		*	*	*	*	*	*	14.0	(12.1–16.0)	15.2	(13.2–17.2)
Saskatchewan		*	*	13.4	(12.7–14.1)	13.8	(13.2–14.5)	14.1	(13.5–14.8)	14.9	(14.2–15.5)
4704 Regina		*	*	11.7	(10.4–13.0)	12.6	(11.3–13.9)	13.3	(11.9–14.7)	14.1	(12.7–15.4)
4706 Saskatoon		*	*	14.6	(13.3–15.8)	13.7	(12.5–15.0)	15.1	(13.8–16.4)	17.0	(15.7–18.4)
4709 Prince Albert		*	*	11.7	(9.6–13.8)	13.3	(11.2–15.5)	10.2	(8.2–12.1)	13.0	(10.8–15.1)
Alberta		*	*	17.2	(16.8–17.6)	17.7	(17.3–18.1)	18.4	(18.0–18.8)	18.9	(18.4–19.3)
4820 Chinook		*	*	14.4	(12.7–16.0)	15.2	(13.6–16.8)	15.6	(13.9–17.3)	14.9	(13.3–16.5)
4821 Palliser		*	*	13.4	(11.4–15.4)	13.8	(11.8–15.8)	17.5	(15.3–19.7)	17.3	(15.0–19.6)
4822 Calgary		*	*	18.9	(18.2–19.6)	20.0	(19.3–20.7)	19.5	(18.8–20.2)	20.7	(20.0–21.4)
4823 David Thompson		*	*	18.1	(16.7–19.4)	15.8	(14.6–17.1)	19.1	(17.8–20.5)	18.7	(17.4–20.0)
4824 East Central		*	*	20.0	(17.6–22.4)	18.8	(16.4–21.2)	19.9	(17.5–22.3)	18.5	(16.2–20.8)
4825 Capital		*	*	16.5	(15.7–17.2)	17.3	(16.6–18.1)	18.6	(17.8–19.3)	18.3	(17.5–19.0)
4826 Aspen		*	*	16.5	(14.9–18.1)	17.1	(15.5–18.8)	15.6	(14.0–17.1)	17.6	(16.0–19.3)
4827 Peace Country		*	*	15.7	(14.0–17.4)	15.0	(13.4–16.7)	14.7	(13.0–16.4)	16.0	(14.3–17.7)
British Columbia		20.1	(19.6–20.5)	20.5	(20.1–20.9)	21.1	(20.6–21.5)	21.8	(21.3–22.2)	21.7	(21.3–22.2)
5911 East Kootenay		12.4	(9.6–15.2)	22.3	(19.0–25.6)	23.7	(20.2–27.2)	26.5	(22.9–30.1)	21.6	(18.2–25.1)
5912 Kootenay Boundary		16.9	(13.6–20.1)	23.1	(19.3–27.0)	18.1	(14.6–21.6)	17.1	(13.8–20.4)	16.3	(13.1–19.5)
5913 Okanagan		16.6	(15.0–18.1)	17.9	(16.3–19.6)	20.4	(18.7–22.1)	20.7	(19.0–22.4)	21.1	(19.4–22.8)
5914 Thompson/Cariboo/Shuswap		21.9	(19.8–24.0)	21.9	(19.8–24.0)	23.2	(21.1–25.3)	23.1	(21.0–25.2)	22.4	(20.3–24.5)
5921 Fraser East		17.6	(16.1–19.1)	18.8	(17.3–20.3)	18.6	(17.1–20.1)	20.3	(18.8–21.9)	18.2	(16.7–19.7)
5922 Fraser North		20.6	(19.5–21.8)	19.9	(18.8–21.0)	21.2	(20.1–22.4)	21.4	(20.2–22.5)	21.4	(20.2–22.5)
5923 Fraser South		19.9	(18.9–21.0)	20.7	(19.7–21.7)	21.2	(20.2–22.2)	21.6	(20.6–22.7)	22.1	(21.1–23.2)
5931 Richmond		23.7	(21.5–26.0)	20.8	(18.6–23.0)	22.0	(19.7–24.2)	21.7	(19.6–23.9)	22.1	(19.8–24.4)
5932 Vancouver		21.5	(20.4–22.7)	21.3	(20.1–22.4)	20.6	(19.5–21.7)	22.2	(21.0–23.3)	22.6	(21.5–23.8)
5933 North Shore		20.5	(18.7–22.3)	19.7	(18.0–21.5)	21.9	(20.1–23.7)	22.2	(20.3–24.0)	23.4	(21.5–25.4)
5941 South Vancouver Island		22.2	(20.5–23.9)	25.1	(23.3–26.9)	24.7	(22.9–26.4)	28.5	(26.7–30.4)	29.5	(27.6–31.3)
5942 Central Vancouver Island		19.8	(17.9–21.7)	20.1	(18.2–22.1)	20.8	(18.8–22.7)	19.0	(17.1–20.9)	19.4	(17.5–21.3)
5943 North Vancouver Island		18.4	(15.8–20.9)	18.6	(16.0–21.1)	21.0	(18.2–23.8)	23.7	(20.8–26.6)	18.9	(16.2–21.6)
5951 Northwest		19.9	(17.3–22.6)	20.5	(17.8–23.2)	19.4	(16.7–22.1)	17.7	(15.0–20.4)	16.7	(14.0–19.3)
5952 Northern Interior		21.7	(19.5–23.9)	19.4	(17.3–21.5)	19.1	(17.0–21.2)	19.9	(17.7–22.0)	20.2	(18.1–22.3)
Yukon Territory		21.6	(16.9–26.4)	16.3	(11.9–20.7)	19.5	(15.0–23.9)	21.5	(16.9–26.2)	18.1	(13.7–22.6)
Northwest Territories		*	*	16.0	(13.1–18.9)	17.4	(14.5–20.3)	16.2	(13.3–19.1)	17.7	(14.8–20.6)
Nunavut		*	*	*	*	9.1	(6.5–11.8)	7.2	(5.3–9.2)	5.0	(3.3–6.7)

Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data are not shown, since the ICD-10-CA and CCI coding classification system had not yet been adopted by the province or territory. Nunavut did not submit data to CIHI in 2002–2003.

** Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-8. Repeat Caesarean Section Rate, by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		87.8	(84.8–90.7)	88.6	(85.6–91.5)	90.3	(87.7–92.9)	90.9	(88.3–93.5)	91.4	(89.0–93.8)
	1011 Eastern, N.L.	86.1	(82.2–90.0)	87.9	(84.2–91.6)	91.1	(87.8–94.4)	92.3	(89.1–95.4)	90.2	(86.9–93.5)
	1012 Central, N.L.	92.9	(87.5–98.4)	94.0	(88.9–99.1)	92.2	(87.1–97.4)	92.4	(86.6–98.2)	93.6	(88.7–98.6)
	1013 Western, N.L.	87.9	(79.5–96.3)	85.0	(73.9–96.1)	88.9	(81.1–96.6)	84.0	(75.7–92.3)	95.0	(89.5–100.0)
Prince Edward Island		76.2	(69.8–82.5)	82.6	(76.8–88.5)	82.6	(77.1–88.1)	83.6	(78.2–89.0)	82.8	(77.0–88.6)
Nova Scotia		76.3	(73.6–78.9)	80.5	(78.0–83.1)	82.0	(79.7–84.4)	81.9	(79.6–84.2)	83.4	(81.2–85.6)
	1201 Zone 1, N.S.	77.1	(69.1–85.2)	80.0	(72.0–88.0)	82.3	(74.7–89.9)	84.7	(77.6–91.8)	83.9	(76.4–91.3)
	1202 Zone 2, N.S.	75.0	(65.0–85.0)	75.0	(65.5–84.5)	79.7	(69.8–89.5)	83.8	(75.1–92.6)	82.1	(74.0–90.3)
	1203 Zone 3, N.S.	78.3	(70.7–85.8)	76.6	(68.7–84.5)	85.7	(79.4–92.0)	83.7	(77.7–89.6)	79.8	(72.9–86.8)
	1204 Zone 4, N.S.	90.4	(84.5–96.4)	92.2	(86.7–97.8)	83.7	(76.4–91.0)	86.8	(80.6–93.0)	86.2	(79.8–92.7)
	1205 Zone 5, N.S.	67.4	(59.4–75.5)	78.6	(71.0–86.2)	76.3	(69.1–83.6)	73.8	(66.5–81.0)	78.9	(72.3–85.5)
	1206 Zone 6, N.S.	75.2	(71.2–79.1)	80.3	(76.5–84.1)	82.8	(79.5–86.2)	81.8	(78.3–85.3)	85.4	(82.3–88.5)
New Brunswick		*	*	*	*	88.6	(86.4–90.7)	82.0	(79.3–84.7)	87.9	(85.8–90.1)
	1301 Region 1, N.B. (Moncton area)	*	*	*	*	89.3	(84.7–93.8)	89.9	(85.3–94.4)	90.5	(86.4–94.5)
	1302 Region 2, N.B. (Saint John area)	*	*	*	*	79.1	(73.4–84.8)	79.7	(73.9–85.4)	80.6	(75.2–85.9)
	1303 Region 3, N.B. (Fredericton area)	*	*	*	*	91.9	(88.4–95.5)	87.4	(83.0–91.9)	91.7	(88.2–95.3)
	1306 Region 6, N.B. (Bathurst area)	*	*	*	*	92.1	(86.0–98.2)	**	**	82.1	(72.9–91.3)
Quebec		69.2	(68.1–70.4)	74.8	(73.7–75.9)	76.3	(75.3–77.3)	79.3	(78.4–80.3)	81.0	(80.1–81.9)
	2401 Bas-Saint-Laurent	72.9	(64.9–80.9)	81.3	(74.5–88.0)	84.8	(78.8–90.8)	84.1	(78.0–90.2)	89.0	(84.4–93.5)
	2402 Saguenay-Lac-Saint-Jean	63.0	(56.8–69.2)	69.3	(63.0–75.6)	75.9	(70.0–81.7)	72.7	(67.0–78.3)	75.3	(69.8–80.9)
	2403 Capitale nationale	70.8	(66.7–74.9)	79.0	(75.0–83.0)	80.7	(77.1–84.2)	80.6	(77.1–84.1)	86.4	(83.6–89.3)
	2404 Mauricie et Centre-du-Québec	80.2	(75.8–84.6)	83.9	(80.0–87.8)	79.8	(75.7–83.9)	86.8	(83.2–90.3)	87.3	(84.1–90.5)
	2405 Estrie	52.0	(44.6–59.5)	49.7	(42.0–57.4)	59.7	(52.7–66.6)	57.1	(50.1–64.2)	74.0	(68.5–79.5)
	2406 Montréal	70.8	(68.8–72.8)	74.1	(72.1–76.0)	74.6	(72.7–76.4)	77.7	(75.9–79.5)	77.9	(76.1–79.6)
	2407 Outaouais	69.4	(62.9–75.9)	72.7	(67.4–78.1)	72.7	(67.4–78.0)	78.9	(74.5–83.3)	77.9	(73.5–82.3)
	2408 Abitibi-Témiscamingue	47.8	(38.6–57.0)	64.3	(55.4–73.2)	68.6	(60.3–76.9)	70.5	(62.7–78.4)	75.2	(67.9–82.4)
	2409 Côte-Nord	72.5	(62.7–82.3)	77.6	(68.8–86.5)	74.7	(66.0–83.5)	81.1	(73.0–89.2)	77.8	(69.2–86.4)
	2411 Gaspésie-Îles-de-la-Madeleine	66.7	(54.7–78.6)	78.7	(67.0–90.4)	89.1	(80.9–97.3)	96.0	(90.6–100.0)	79.6	(68.3–90.9)
	2412 Chaudière-Appalaches	73.6	(69.1–78.2)	79.2	(75.2–83.2)	84.7	(81.2–88.2)	82.8	(79.3–86.3)	90.3	(87.7–92.9)
	2413 Laval	78.2	(73.8–82.6)	79.1	(74.5–83.6)	78.6	(74.3–82.9)	84.1	(80.1–88.1)	83.3	(79.7–86.9)
	2414 Lanaudière	60.7	(55.4–66.0)	74.0	(69.3–78.8)	71.4	(66.5–76.2)	81.9	(77.9–85.9)	81.0	(77.2–84.9)
	2415 Laurentides	69.4	(64.6–74.2)	72.7	(68.4–76.9)	79.8	(75.9–83.7)	83.2	(79.8–86.7)	81.0	(77.6–84.4)
	2416 Montérégie	67.4	(64.8–70.1)	75.7	(73.2–78.1)	76.2	(73.9–78.6)	79.8	(77.7–82.0)	81.3	(79.3–83.3)
Ontario		*	*	78.4	(77.7–79.0)	80.8	(80.1–81.4)	83.1	(82.5–83.6)	84.2	(83.7–84.8)
	3501 Erie St. Clair	*	*	73.8	(70.6–77.0)	74.7	(71.8–77.6)	81.6	(78.8–84.3)	79.1	(76.5–81.7)
	3502 South West	*	*	67.1	(64.0–70.1)	71.1	(68.3–74.0)	74.9	(72.2–77.6)	74.5	(71.9–77.1)
	3503 Waterloo Wellington	*	*	73.6	(70.5–76.7)	78.7	(75.9–81.5)	78.8	(76.2–81.5)	82.5	(80.2–84.8)
	3504 Hamilton Niagara Haldimand Brant	*	*	78.6	(76.5–80.7)	78.0	(76.0–80.1)	80.7	(78.8–82.6)	82.6	(80.8–84.4)
	3505 Central West	*	*	83.7	(81.6–85.8)	83.7	(81.7–85.7)	84.2	(82.3–86.1)	87.0	(85.3–88.7)
	3506 Mississauga Halton	*	*	78.5	(76.1–80.8)	82.8	(80.8–84.9)	83.8	(81.9–85.8)	87.1	(85.4–88.9)
	3507 Toronto Central	*	*	77.8	(75.6–80.1)	82.9	(81.0–84.8)	82.9	(81.0–84.9)	84.9	(83.2–86.7)
	3508 Central	*	*	81.3	(79.6–83.1)	82.8	(81.2–84.4)	84.8	(83.3–86.4)	86.8	(85.4–88.2)
	3509 Central East	*	*	79.8	(78.0–81.6)	82.2	(80.5–84.0)	85.9	(84.3–87.4)	85.2	(83.7–86.7)
	3510 South East	*	*	76.6	(72.9–80.3)	81.1	(77.8–84.5)	85.2	(82.3–88.2)	85.9	(83.0–88.8)
	3511 Champlain	*	*	77.7	(75.4–80.0)	80.9	(78.8–83.0)	85.1	(83.2–86.9)	85.7	(83.9–87.5)
	3512 North Simcoe Muskoka	*	*	86.5	(83.2–89.7)	88.5	(85.9–91.1)	89.8	(87.1–92.4)	89.0	(86.5–91.5)
	3513 North East	*	*	84.6	(81.6–87.6)	87.1	(84.3–89.8)	84.4	(81.4–87.4)	87.2	(84.5–89.8)
	3514 North West	*	*	73.1	(68.0–78.1)	67.3	(62.0–72.6)	73.6	(68.7–78.4)	72.2	(67.6–76.7)

continued

Table B-8. Repeat Caesarean Section Rate, by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		*	*	*	*	*	*	70.6	(68.3–73.0)	70.0	(67.8–72.3)
	4610 Winnipeg	*	*	*	*	*	*	69.3	(65.9–72.6)	69.6	(66.3–72.8)
	4630 Interlake	*	*	*	*	*	*	70.0	(60.5–79.5)	70.3	(60.9–79.7)
	4640 Central	*	*	*	*	*	*	77.1	(70.7–83.4)	69.3	(62.7–75.8)
Saskatchewan		*	*	69.4 (66.9–71.9)		70.7 (68.2–73.2)		69.5	(67.0–72.0)	70.5	(68.0–72.9)
	4704 Regina	*	*	64.7 (59.2–70.2)		69.7 (64.0–75.3)		67.2	(61.4–73.0)	70.7	(65.5–76.0)
	4706 Saskatoon	*	*	70.3 (65.7–74.9)		66.0 (61.1–70.9)		64.6	(59.7–69.6)	69.4	(64.7–74.0)
	4709 Prince Albert	*	*	52.7 (42.5–63.0)		54.3 (44.2–64.3)		55.1	(45.3–64.9)	61.0	(52.2–69.8)
Alberta		*	*	72.4 (71.0–73.7)		74.9 (73.6–76.1)		76.5	(75.3–77.7)	78.0	(76.9–79.1)
	4820 Chinook	*	*	69.9 (63.6–76.1)		73.6 (68.3–79.0)		70.5	(64.9–76.2)	71.7	(66.3–77.1)
	4821 Palliser	*	*	61.7 (53.0–70.4)		78.5 (71.4–85.5)		73.9	(66.7–81.2)	74.6	(66.7–82.4)
	4822 Calgary	*	*	71.8 (69.5–74.1)		74.9 (72.7–77.0)		77.5	(75.5–79.5)	79.5	(77.7–81.3)
	4823 David Thompson	*	*	70.8 (66.4–75.1)		75.7 (71.8–79.7)		77.1	(73.5–80.8)	81.6	(78.2–85.0)
	4824 East Central	*	*	79.1 (72.9–85.4)		75.7 (69.3–82.2)		75.8	(69.6–82.0)	77.1	(71.1–83.0)
	4825 Capital	*	*	74.2 (71.8–76.7)		74.6 (72.3–77.0)		76.7	(74.4–79.0)	78.8	(76.7–80.9)
	4826 Aspen	*	*	74.6 (69.4–79.7)		74.5 (69.4–79.6)		79.5	(74.9–84.1)	75.5	(70.6–80.4)
	4827 Peace Country	*	*	73.8 (67.9–79.8)		78.5 (73.2–83.8)		79.5	(74.2–84.8)	72.7	(67.2–78.2)
British Columbia		78.0 (76.8–79.2)		80.8 (79.6–81.9)		80.5 (79.4–81.6)		82.6	(81.5–83.6)	83.8	(82.8–84.8)
	5911 East Kootenay	71.0 (59.7–82.3)		83.9 (74.7–93.0)		79.0 (70.1–87.9)		93.2	(87.9–98.4)	86.7	(80.0–93.5)
	5912 Kootenay Boundary	80.9 (71.5–90.2)		69.4 (58.8–80.1)		79.3 (68.9–89.7)		77.8	(67.5–88.0)	76.1	(65.9–86.3)
	5913 Okanagan	74.8 (70.1–79.4)		84.9 (81.0–88.8)		84.5 (80.2–88.7)		87.4	(83.8–91.0)	88.9	(85.6–92.2)
	5914 Thompson/Cariboo/Shuswap	77.9 (72.9–82.8)		82.6 (77.9–87.4)		86.3 (82.3–90.4)		83.0	(78.6–87.5)	87.5	(83.7–91.3)
	5921 Fraser East	74.2 (69.6–78.7)		80.1 (76.1–84.2)		78.4 (74.3–82.4)		77.7	(73.9–81.5)	83.4	(79.9–86.8)
	5922 Fraser North	81.0 (77.8–84.1)		81.3 (78.3–84.4)		81.3 (78.4–84.1)		83.4	(80.7–86.1)	80.5	(77.7–83.4)
	5923 Fraser South	77.5 (74.7–80.3)		78.8 (76.2–81.5)		79.1 (76.6–81.7)		81.9	(79.6–84.3)	84.6	(82.3–86.8)
	5931 Richmond	74.5 (68.5–80.5)		80.7 (74.8–86.5)		89.6 (85.2–94.0)		87.8	(83.1–92.5)	86.1	(81.8–90.3)
	5932 Vancouver	76.7 (73.3–80.1)		77.6 (74.2–81.0)		74.7 (71.3–78.1)		79.2	(76.1–82.4)	80.3	(77.3–83.3)
	5933 North Shore	84.5 (80.1–89.0)		77.9 (73.0–82.7)		82.1 (77.8–86.3)		80.7	(76.3–85.1)	83.2	(79.1–87.3)
	5941 South Vancouver Island	76.1 (71.6–80.5)		82.5 (78.5–86.5)		80.2 (76.0–84.3)		85.4	(81.7–89.1)	83.8	(80.0–87.6)
	5942 Central Vancouver Island	84.8 (80.0–89.6)		84.8 (80.0–89.6)		85.3 (80.7–89.9)		84.5	(79.9–89.1)	88.1	(84.3–91.8)
	5943 North Vancouver Island	78.6 (71.2–86.1)		82.8 (75.9–89.6)		74.8 (67.0–82.6)		85.9	(79.9–92.0)	78.0	(70.5–85.4)
	5951 Northwest	76.4 (68.3–84.5)		82.3 (76.3–88.2)		76.6 (69.2–84.1)		82.2	(75.8–88.7)	88.1	(82.4–93.7)
	5952 Northern Interior	82.4 (76.9–87.9)		86.5 (81.6–91.4)		85.0 (79.6–90.3)		82.7	(77.5–87.9)	78.7	(73.3–84.1)
Yukon Territory		69.0 (52.1–85.8)		70.6 (55.3–85.9)		75.0 (59.0–91.0)		76.5	(62.2–90.7)	86.4	(76.2–96.5)
Northwest Territories		*	*	82.1 (72.1–92.2)		74.4 (64.7–84.0)		77.9	(68.1–87.8)	78.8	(70.1–87.5)
Nunavut		*	*	*	*	47.4 (24.9–69.8)		56.4	(40.8–72.0)	53.3	(38.8–67.9)

Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data are not shown, since the ICD-10-CA and CCI coding classification system had not yet been adopted by the province or territory. Nunavut did not submit data to CIHI in 2002–2003.

** Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-9. Primary Caesarean Section Rate (< 35 Years), by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		18.6	(17.4–19.9)	17.4	(16.2–18.6)	19.7	(18.4–21.0)	20.9	(19.5–22.2)	21.3	(20.0–22.7)
	1011 Eastern, N.L.	18.9	(17.2–20.7)	18.2	(16.5–19.9)	20.2	(18.4–21.9)	22.2	(20.3–24.0)	21.5	(19.7–23.3)
	1012 Central, N.L.	16.7	(13.8–19.7)	15.3	(12.6–18.0)	19.5	(16.4–22.6)	20.6	(17.4–23.7)	24.2	(20.6–27.7)
	1013 Western, N.L.	20.2	(16.9–23.6)	18.1	(14.8–21.4)	17.7	(14.5–21.0)	19.5	(16.1–23.0)	18.2	(14.6–21.7)
Prince Edward Island		19.7	(17.3–22.1)	18.5	(16.1–20.9)	21.4	(18.9–23.9)	25.3	(22.7–28.0)	21.4	(18.9–24.0)
Nova Scotia		18.1	(17.2–19.0)	19.8	(18.8–20.8)	19.9	(18.9–20.8)	19.6	(18.7–20.6)	19.1	(18.2–20.1)
	1201 Zone 1, N.S.	18.4	(15.8–21.1)	19.2	(16.5–22.0)	18.5	(15.7–21.3)	20.4	(17.5–23.3)	20.3	(17.3–23.3)
	1202 Zone 2, N.S.	14.4	(11.5–17.2)	15.8	(12.7–18.9)	14.7	(11.6–17.9)	17.7	(14.4–21.0)	17.1	(13.9–20.3)
	1203 Zone 3, N.S.	16.4	(13.7–19.1)	18.9	(16.0–21.9)	21.7	(18.7–24.6)	20.2	(17.3–23.2)	21.0	(18.0–23.9)
	1204 Zone 4, N.S.	19.9	(16.9–22.9)	18.2	(15.2–21.3)	17.9	(14.9–20.8)	20.1	(16.9–23.4)	17.9	(14.8–20.9)
	1205 Zone 5, N.S.	16.5	(13.9–19.0)	23.0	(20.1–25.9)	21.6	(18.8–24.4)	20.0	(17.2–22.8)	19.6	(16.9–22.3)
	1206 Zone 6, N.S.	19.3	(17.9–20.7)	20.3	(18.8–21.8)	20.7	(19.3–22.2)	19.6	(18.2–21.0)	18.9	(17.5–20.4)
New Brunswick		*	*	*	*	20.2	(19.1–21.2)	18.7	(17.6–19.7)	19.3	(18.3–20.4)
	1301 Region 1, N.B. (Moncton area)	*	*	*	*	17.7	(15.7–19.6)	19.2	(17.2–21.3)	17.0	(15.0–19.0)
	1302 Region 2, N.B. (Saint John area)	*	*	*	*	18.1	(16.1–20.2)	18.9	(16.7–21.0)	16.7	(14.7–18.8)
	1303 Region 3, N.B. (Fredericton area)	*	*	*	*	21.9	(19.7–24.1)	20.6	(18.4–22.7)	22.2	(20.0–24.3)
	1306 Region 6, N.B. (Bathurst area)	*	*	*	*	23.5	(19.7–27.3)	**	**	17.1	(13.5–20.7)
Quebec		14.1	(13.9–14.4)	15.0	(14.7–15.3)	15.1	(14.8–15.4)	15.4	(15.1–15.7)	15.6	(15.3–15.9)
	2401 Bas-Saint-Laurent	15.3	(13.4–17.2)	17.2	(15.1–19.3)	18.1	(16.0–20.1)	18.1	(16.0–20.2)	17.0	(15.0–19.0)
	2402 Saguenay-Lac-Saint-Jean	11.8	(10.4–13.2)	15.4	(13.8–16.9)	15.1	(13.6–16.7)	16.7	(15.1–18.3)	15.4	(13.8–16.9)
	2403 Capitale nationale	14.6	(13.6–15.7)	14.7	(13.6–15.8)	15.6	(14.5–16.6)	15.7	(14.6–16.7)	16.2	(15.1–17.3)
	2404 Mauricie et Centre-du-Québec	14.0	(12.9–15.2)	13.2	(12.1–14.3)	13.2	(12.1–14.4)	15.6	(14.4–16.8)	15.6	(14.4–16.8)
	2405 Estrie	12.0	(10.7–13.3)	12.8	(11.4–14.2)	12.2	(10.9–13.5)	12.7	(11.4–14.0)	13.6	(12.2–15.0)
	2406 Montréal	14.7	(14.1–15.3)	15.4	(14.8–16.0)	15.5	(14.9–16.1)	15.5	(14.9–16.1)	15.1	(14.6–15.7)
	2407 Outaouais	14.9	(13.3–16.4)	15.5	(14.1–16.9)	17.4	(15.9–18.8)	17.2	(15.8–18.7)	18.5	(17.1–20.0)
	2408 Abitibi-Témiscamingue	14.0	(12.1–15.9)	14.5	(12.5–16.5)	15.6	(13.5–17.6)	16.9	(14.8–19.1)	18.1	(16.0–20.3)
	2409 Côte-Nord	15.9	(13.4–18.4)	19.5	(16.7–22.3)	16.3	(13.8–18.9)	17.9	(15.2–20.5)	16.6	(14.0–19.2)
	2411 Gaspésie-Îles-de-la-Madeleine	17.5	(14.1–20.9)	18.0	(14.7–21.4)	15.0	(12.1–18.0)	19.4	(16.2–22.7)	22.9	(19.4–26.4)
	2412 Chaudière-Appalaches	16.6	(15.3–17.9)	17.4	(16.0–18.8)	14.9	(13.7–16.2)	15.7	(14.5–17.0)	16.7	(15.4–18.0)
	2413 Laval	13.5	(12.2–14.8)	15.0	(13.6–16.4)	14.6	(13.2–15.9)	15.7	(14.3–17.1)	14.8	(13.5–16.2)
	2414 Lanaudière	14.5	(13.3–15.8)	14.7	(13.3–16.0)	15.2	(13.9–16.5)	15.5	(14.2–16.7)	14.3	(13.1–15.5)
	2415 Laurentides	12.6	(11.6–13.7)	13.0	(11.9–14.1)	15.0	(13.9–16.2)	13.9	(12.8–15.0)	14.3	(13.3–15.4)
	2416 Montérégie	13.8	(13.2–14.5)	15.0	(14.3–15.7)	15.0	(14.3–15.7)	14.7	(14.0–15.4)	15.5	(14.8–16.2)
Ontario		*	*	16.6	(16.4–16.9)	17.9	(17.7–18.1)	18.2	(18.0–18.5)	18.5	(18.3–18.8)
	3501 Erie St. Clair	*	*	15.9	(14.9–16.9)	16.5	(15.5–17.6)	16.4	(15.4–17.4)	16.7	(15.7–17.8)
	3502 South West	*	*	14.2	(13.4–15.0)	15.8	(15.0–16.7)	16.0	(15.2–16.9)	16.3	(15.4–17.1)
	3503 Waterloo Wellington	*	*	17.4	(16.4–18.4)	18.8	(17.8–19.8)	18.3	(17.3–19.3)	18.2	(17.2–19.1)
	3504 Hamilton Niagara Haldimand Brant	*	*	16.9	(16.2–17.7)	16.4	(15.7–17.1)	18.4	(17.7–19.2)	18.6	(17.9–19.4)
	3505 Central West	*	*	18.0	(17.1–18.9)	18.7	(17.8–19.6)	19.1	(18.2–20.0)	18.5	(17.6–19.3)
	3506 Mississauga Halton	*	*	14.4	(13.6–15.2)	15.4	(14.6–16.2)	15.8	(15.0–16.6)	15.9	(15.1–16.7)
	3507 Toronto Central	*	*	18.7	(17.9–19.6)	19.2	(18.3–20.0)	19.4	(18.5–20.2)	20.4	(19.5–21.3)
	3508 Central	*	*	16.3	(15.6–17.0)	17.8	(17.1–18.5)	17.3	(16.6–18.0)	18.7	(18.0–19.4)
	3509 Central East	*	*	17.1	(16.4–17.8)	19.6	(18.9–20.4)	20.0	(19.3–20.8)	20.8	(20.1–21.6)
	3510 South East	*	*	16.4	(15.2–17.7)	18.3	(16.9–19.6)	17.0	(15.7–18.3)	19.9	(18.5–21.3)
	3511 Champlain	*	*	16.9	(16.2–17.7)	18.9	(18.1–19.7)	19.6	(18.7–20.4)	18.4	(17.6–19.2)
	3512 North Simcoe Muskoka	*	*	16.1	(14.8–17.5)	20.0	(18.6–21.4)	20.9	(19.5–22.4)	19.6	(18.2–20.9)
	3513 North East	*	*	18.7	(17.5–19.9)	19.1	(17.9–20.3)	20.5	(19.2–21.7)	20.3	(19.0–21.5)
	3514 North West	*	*	14.2	(12.6–15.7)	15.4	(13.8–17.1)	14.8	(13.3–16.4)	14.6	(13.1–16.2)

continued

Table B-9. Primary Caesarean Section Rate (< 35 Years), by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		*	*	*	*	*	*	14.0	(13.4–14.7)	14.1	(13.5–14.8)
4610	Winnipeg	*	*	*	*	*	*	14.3	(13.4–15.2)	14.5	(13.6–15.4)
4630	Interlake	*	*	*	*	*	*	14.0	(11.2–16.8)	9.9	(7.5–12.2)
4640	Central	*	*	*	*	*	*	13.6	(11.6–15.7)	14.9	(12.8–17.0)
Saskatchewan		*	*	12.9	(12.2–13.6)	13.3	(12.6–14.0)	13.7	(13.0–14.4)	14.4	(13.7–15.1)
4704	Regina	*	*	11.2	(9.8–12.5)	12.4	(11.0–13.7)	12.7	(11.3–14.1)	13.5	(12.1–14.9)
4706	Saskatoon	*	*	13.9	(12.5–15.2)	12.9	(11.6–14.2)	14.4	(13.1–15.8)	16.7	(15.3–18.2)
4709	Prince Albert	*	*	10.6	(8.5–12.7)	12.9	(10.7–15.1)	9.7	(7.7–11.7)	12.5	(10.3–14.7)
Alberta		*	*	16.5	(16.1–16.9)	16.9	(16.5–17.3)	17.6	(17.2–18.0)	18.0	(17.6–18.5)
4820	Chinook	*	*	14.0	(12.2–15.7)	15.0	(13.3–16.7)	15.2	(13.5–17.0)	14.7	(13.0–16.4)
4821	Palliser	*	*	12.7	(10.7–14.8)	14.0	(11.9–16.1)	17.2	(14.8–19.5)	17.0	(14.6–19.4)
4822	Calgary	*	*	18.1	(17.3–18.8)	19.0	(18.2–19.8)	18.4	(17.7–19.2)	19.5	(18.7–20.2)
4823	David Thompson	*	*	17.8	(16.4–19.2)	15.4	(14.1–16.7)	18.6	(17.1–20.0)	18.5	(17.1–19.9)
4824	East Central	*	*	19.7	(17.2–22.2)	17.8	(15.4–20.3)	19.1	(16.6–21.6)	17.6	(15.2–20.0)
4825	Capital	*	*	15.7	(14.9–16.5)	16.5	(15.7–17.2)	17.8	(17.0–18.6)	17.5	(16.7–18.3)
4826	Aspen	*	*	15.7	(14.1–17.3)	16.7	(15.0–18.4)	15.3	(13.7–16.9)	17.7	(16.0–19.5)
4827	Peace Country	*	*	15.2	(13.4–16.9)	14.8	(13.1–16.5)	14.2	(12.5–15.9)	15.6	(13.8–17.3)
British Columbia		19.1	(18.6–19.5)	19.5	(19.0–19.9)	19.9	(19.4–20.4)	20.7	(20.3–21.2)	20.7	(20.3–21.2)
5911	East Kootenay	11.9	(8.9–14.8)	21.0	(17.5–24.4)	22.4	(18.8–26.1)	26.0	(22.1–30.0)	20.7	(17.1–24.3)
5912	Kootenay Boundary	16.3	(12.8–19.8)	22.1	(17.9–26.2)	17.4	(13.7–21.2)	15.7	(12.2–19.2)	16.8	(13.3–20.4)
5913	Okanagan	15.8	(14.2–17.5)	16.9	(15.2–18.7)	19.2	(17.4–21.1)	20.0	(18.2–21.9)	20.2	(18.4–22.0)
5914	Thompson/Cariboo/Shuswap	21.2	(19.0–23.4)	22.2	(20.0–24.4)	22.5	(20.3–24.8)	22.7	(20.5–24.9)	21.7	(19.5–23.9)
5921	Fraser East	17.2	(15.6–18.7)	18.1	(16.6–19.7)	18.1	(16.5–19.7)	19.7	(18.0–21.3)	17.9	(16.4–19.5)
5922	Fraser North	19.4	(18.1–20.6)	19.0	(17.8–20.3)	20.1	(18.8–21.4)	20.0	(18.7–21.3)	20.6	(19.3–21.9)
5923	Fraser South	19.1	(18.0–20.2)	19.7	(18.6–20.8)	20.5	(19.3–21.6)	20.9	(19.8–22.1)	21.5	(20.4–22.7)
5931	Richmond	22.1	(19.5–24.7)	19.8	(17.3–22.3)	19.7	(17.1–22.2)	20.2	(17.7–22.8)	20.5	(17.9–23.1)
5932	Vancouver	20.1	(18.8–21.4)	19.4	(18.1–20.7)	18.4	(17.1–19.7)	20.1	(18.8–21.5)	20.2	(18.9–21.5)
5933	North Shore	19.2	(17.1–21.3)	18.6	(16.6–20.6)	19.7	(17.6–21.8)	20.9	(18.8–23.1)	21.3	(19.1–23.6)
5941	South Vancouver Island	20.9	(19.1–22.8)	24.7	(22.7–26.7)	23.4	(21.5–25.3)	27.6	(25.6–29.6)	29.1	(27.0–31.1)
5942	Central Vancouver Island	19.7	(17.7–21.8)	18.6	(16.6–20.6)	20.9	(18.8–23.0)	18.3	(16.3–20.3)	18.7	(16.7–20.6)
5943	North Vancouver Island	17.1	(14.4–19.8)	17.3	(14.5–20.0)	20.5	(17.6–23.5)	23.6	(20.5–26.7)	18.6	(15.7–21.5)
5951	Northwest	19.9	(17.1–22.7)	19.1	(16.3–21.9)	17.9	(15.0–20.7)	17.6	(14.7–20.4)	16.2	(13.4–19.0)
5952	Northern Interior	21.3	(19.1–23.6)	19.2	(17.0–21.5)	18.4	(16.2–20.6)	19.3	(17.1–21.6)	20.3	(18.0–22.5)
Yukon Territory		17.6	(12.8–22.4)	16.0	(11.3–20.7)	17.2	(12.5–21.9)	19.0	(14.3–23.8)	18.5	(13.5–23.5)
Northwest Territories		*	*	14.6	(11.6–17.5)	16.5	(13.5–19.5)	15.6	(12.6–18.6)	17.4	(14.3–20.5)
Nunavut		*	*	*	*	8.9	(6.3–11.6)	6.8	(4.9–8.8)	5.2	(3.4–7.0)

Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data are not shown, since the ICD-10-CA and CCI coding classification system had not yet been adopted by the province or territory. Nunavut did not submit data to CIHI in 2002–2003.

** Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-10. Primary Caesarean Section Rate (≥ 35 years), by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		23.8	(19.7–27.8)	21.8	(18.1–25.5)	25.9	(21.9–29.8)	24.2	(20.3–28.2)	27.2	(23.3–31.1)
1011	Eastern, N.L.	26.2	(21.1–31.3)	19.2	(14.8–23.5)	27.6	(22.5–32.7)	24.6	(19.6–29.5)	25.6	(20.9–30.2)
1012	Central, N.L.	**	**	26.2	(15.5–36.8)	25.0	(14.0–36.0)	33.3	(21.4–45.3)	33.9	(22.1–45.7)
1013	Western, N.L.	26.1	(13.4–38.8)	31.4	(18.6–44.1)	20.0	(9.9–30.1)	16.4	(6.6–26.1)	28.1	(17.1–39.1)
Prince Edward Island		28.5	(20.5–36.4)	22.1	(15.3–28.8)	28.9	(21.9–36.0)	28.0	(20.6–35.3)	26.5	(19.1–33.9)
Nova Scotia		22.5	(19.8–25.1)	25.6	(23.0–28.3)	23.6	(21.0–26.2)	23.7	(21.0–26.4)	25.3	(22.6–28.0)
1201	Zone 1, N.S.	28.2	(18.7–37.8)	23.1	(14.4–31.7)	20.9	(12.5–29.2)	22.7	(12.6–32.8)	22.9	(13.9–31.9)
1202	Zone 2, N.S.	19.1	(9.8–28.5)	18.4	(10.3–26.5)	21.8	(13.2–30.5)	**	**	26.8	(17.2–36.4)
1203	Zone 3, N.S.	18.2	(9.6–26.8)	25.6	(16.4–34.8)	23.7	(15.2–32.2)	27.5	(17.7–37.3)	28.3	(19.7–36.9)
1204	Zone 4, N.S.	22.4	(13.0–31.7)	18.3	(10.4–26.1)	20.0	(11.5–28.5)	20.9	(12.3–29.5)	16.3	(8.2–24.3)
1205	Zone 5, N.S.	25.2	(17.4–33.0)	25.7	(17.6–33.7)	17.3	(9.9–24.8)	31.7	(22.8–40.7)	33.0	(24.2–41.9)
1206	Zone 6, N.S.	20.8	(17.3–24.3)	28.5	(24.8–32.2)	25.5	(21.9–29.0)	23.6	(20.0–27.2)	24.5	(20.9–28.2)
New Brunswick		*	*	*	*	25.2	(21.8–28.5)	23.8	(20.4–27.2)	27.6	(24.1–31.2)
1301	Region 1, N.B. (Moncton area)	*	*	*	*	24.6	(18.1–31.0)	20.8	(14.3–27.3)	24.1	(17.6–30.6)
1302	Region 2, N.B. (Saint John area)	*	*	*	*	21.5	(15.6–27.4)	28.2	(21.0–35.4)	21.1	(15.1–27.2)
1303	Region 3, N.B. (Fredericton area)	*	*	*	*	27.3	(20.7–34.0)	23.9	(17.7–30.1)	34.8	(27.4–42.1)
1306	Region 6, N.B. (Bathurst area)	*	*	*	*	22.0	(9.3–34.6)	**	**	23.5	(9.3–37.8)
Quebec		17.5	(16.6–18.3)	18.6	(17.7–19.4)	20.0	(19.2–20.9)	19.8	(18.9–20.6)	20.2	(19.4–21.0)
2401	Bas-Saint-Laurent	20.3	(13.3–27.3)	24.8	(17.8–31.9)	22.8	(15.9–29.6)	25.0	(17.4–32.6)	17.9	(11.7–24.2)
2402	Saguenay-Lac-Saint-Jean	14.9	(9.5–20.3)	16.7	(11.0–22.3)	15.8	(9.8–21.7)	15.7	(9.5–21.8)	21.9	(15.2–28.6)
2403	Capitale nationale	16.1	(13.2–19.0)	21.2	(17.9–24.4)	20.5	(17.4–23.6)	17.5	(14.5–20.5)	21.5	(18.5–24.6)
2404	Mauricie et Centre-du-Québec	16.9	(12.8–20.9)	15.4	(11.4–19.4)	20.1	(15.7–24.4)	17.4	(13.3–21.5)	15.8	(11.7–20.0)
2405	Estrie	18.1	(13.0–23.2)	14.0	(9.0–19.0)	17.5	(12.7–22.4)	17.6	(12.3–22.9)	20.4	(15.6–25.2)
2406	Montréal	18.8	(17.4–20.2)	19.4	(18.0–20.8)	20.8	(19.4–22.1)	20.1	(18.8–21.5)	20.9	(19.6–22.3)
2407	Outaouais	18.9	(14.0–23.9)	17.2	(13.3–21.1)	21.0	(16.7–25.2)	19.8	(15.7–23.8)	20.2	(16.2–24.1)
2408	Abitibi-Témiscamingue	20.4	(12.4–28.4)	15.6	(8.1–23.0)	16.7	(9.0–24.4)	28.3	(19.4–37.2)	25.0	(16.0–34.0)
2409	Côte-Nord	15.3	(7.6–22.9)	28.4	(18.6–38.2)	17.3	(9.0–25.5)	25.9	(16.4–35.5)	30.9	(20.8–40.9)
2411	Gaspésie-Îles-de-la-Madeleine	15.7	(7.2–24.2)	22.8	(11.9–33.7)	30.2	(18.8–41.5)	26.4	(16.2–36.6)	22.4	(13.0–31.7)
2412	Chaudière-Appalaches	16.4	(12.2–20.5)	16.7	(12.3–21.1)	19.3	(14.9–23.8)	18.7	(14.3–23.1)	19.3	(14.9–23.7)
2413	Laval	17.8	(14.4–21.2)	17.8	(14.4–21.2)	18.4	(15.0–21.7)	20.7	(17.2–24.1)	18.5	(15.3–21.6)
2414	Lanaudière	18.3	(14.2–22.5)	18.3	(14.1–22.5)	20.1	(15.6–24.6)	18.6	(14.3–23.0)	18.2	(14.1–22.3)
2415	Laurentides	14.3	(11.1–17.4)	17.7	(14.3–21.2)	21.6	(18.0–25.2)	18.3	(15.0–21.6)	19.1	(15.6–22.6)
2416	Montréal	15.9	(14–17.8)	17.4	(15.4–19.4)	18.5	(16.6–20.5)	20.0	(17.9–22.1)	19.4	(17.4–21.4)
Ontario		*	*	21.0	(20.4–21.6)	22.6	(22.0–23.2)	22.7	(22.1–23.3)	23.5	(22.9–24.0)
3501	Erie St. Clair	*	*	18.7	(15.8–21.6)	23.7	(20.5–26.8)	18.9	(16.0–21.7)	18.7	(16.0–21.5)
3502	South West	*	*	18.0	(15.6–20.3)	18.6	(16.3–21.0)	22.3	(19.8–24.9)	17.5	(15.2–19.8)
3503	Waterloo Wellington	*	*	20.9	(18.3–23.6)	21.3	(18.8–23.8)	24.1	(21.4–26.7)	26.9	(24.2–29.5)
3504	Hamilton Niagara Haldimand Brant	*	*	20.6	(18.6–22.5)	23.5	(21.5–25.5)	22.1	(20.1–24.0)	24.2	(22.2–26.1)
3505	Central West	*	*	19.8	(17.6–22.0)	20.8	(18.7–22.9)	23.1	(21.0–25.3)	20.7	(18.6–22.7)
3506	Mississauga Halton	*	*	18.4	(16.8–20.0)	19.8	(18.2–21.5)	20.0	(18.4–21.6)	19.9	(18.3–21.5)
3507	Toronto Central	*	*	24.3	(22.8–25.8)	25.4	(23.9–27.0)	23.1	(21.6–24.6)	26.4	(24.8–28.0)
3508	Central	*	*	20.5	(19.1–21.9)	21.6	(20.2–23.0)	21.6	(20.2–23.0)	23.8	(22.4–25.2)
3509	Central East	*	*	23.0	(21.3–24.7)	24.6	(22.9–26.3)	24.6	(22.9–26.4)	25.5	(23.8–27.3)
3510	South East	*	*	19.6	(15.9–23.3)	22.1	(18.3–25.8)	26.9	(22.8–31.0)	22.2	(18.6–25.9)
3511	Champlain	*	*	21.3	(19.5–23.0)	23.0	(21.2–24.8)	23.5	(21.6–25.3)	25.0	(23.1–26.9)
3512	North Simcoe Muskoka	*	*	18.3	(14.9–21.7)	24.6	(20.8–28.4)	24.3	(20.6–28.1)	24.4	(20.6–28.3)
3513	North East	*	*	25.1	(21.0–29.2)	23.0	(18.9–27.0)	28.2	(23.6–32.7)	27.3	(22.8–31.7)
3514	North West	*	*	16.7	(11.7–21.8)	21.0	(15.4–26.5)	23.4	(17.6–29.2)	16.6	(12.0–21.2)

continued

Table B-10. Primary Caesarean Section Rate (≥ 35 years), by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		*	*	*	*	*	*	18.2 (16.1–20.2)		20.5 (18.4–22.5)	
4610 Winnipeg		*	*	*	*	*	*	17.9 (15.2–20.5)		21.1 (18.5–23.8)	
4630 Interlake		*	*	*	*	*	*	18.9 (10.8–27.0)		20.0 (12.0–28.0)	
4640 Central		*	*	*	*	*	*	17.8 (10.9–24.7)		17.4 (11.1–23.7)	
Saskatchewan		*	*	17.9 (15.5–20.3)		18.7 (16.3–21.1)		18.6 (16.2–21.1)		19.3 (16.8–21.8)	
4704 Regina		*	*	16.5 (11.8–21.3)		14.9 (10.6–19.1)		18.3 (13.5–23.0)		18.6 (14.0–23.2)	
4706 Saskatoon		*	*	20.2 (15.7–24.7)		20.8 (16.2–25.4)		20.8 (16.3–25.2)		19.9 (15.2–24.5)	
4709 Prince Albert		*	*	25.8 (15.2–36.3)		18.8 (10.2–27.3)		15.0 (7.2–22.8)		19.0 (9.4–28.7)	
Alberta		*	*	22.0 (20.8–23.3)		22.9 (21.7–24.2)		23.5 (22.3–24.7)		23.9 (22.7–25.1)	
4820 Chinook		*	*	17.6 (12.3–22.9)		17.4 (11.6–23.1)		19.0 (13.4–24.6)		16.7 (11.1–22.2)	
4821 Palliser		*	*	20.9 (12.5–29.2)		11.7 (5.2–18.2)		20.6 (12.9–28.2)		20.7 (12.4–28.9)	
4822 Calgary		*	*	23.1 (21.2–25.0)		24.8 (23.0–26.6)		24.7 (22.9–26.5)		26.3 (24.5–28.1)	
4823 David Thompson		*	*	20.9 (16.2–25.7)		21.0 (16.2–25.9)		24.9 (19.8–30.0)		20.5 (15.8–25.2)	
4824 East Central		*	*	22.8 (14.6–31.0)		27.2 (18.6–35.8)		27.1 (18.7–35.5)		27.8 (18.9–36.8)	
4825 Capital		*	*	21.4 (19.2–23.6)		22.5 (20.4–24.7)		23.1 (20.9–25.3)		23.2 (21.0–25.3)	
4826 Aspen		*	*	24.1 (18.0–30.1)		21.2 (15.3–27.1)		18.3 (12.7–24.0)		16.8 (11.5–22.2)	
4827 Peace Country		*	*	21.7 (14.9–28.4)		18.0 (11.5–24.6)		20.0 (13.4–26.6)		21.1 (14.4–27.8)	
British Columbia		24.5 (23.4–25.5)		25.0 (23.9–26.1)		26.1 (25.0–27.1)		26.1 (25.1–27.2)		25.8 (24.8–26.9)	
5911 East Kootenay		15.7 (7.2–24.2)		31.9 (21.2–42.7)		31.6 (21.4–41.9)		29.1 (19.5–38.7)		28.4 (17.6–39.2)	
5912 Kootenay Boundary		20.3 (11.1–29.4)		28.0 (18.3–37.8)		21.2 (12.5–29.9)		25.0 (15.3–34.7)		13.6 (6.1–21.0)	
5913 Okanagan		20.8 (16.4–25.3)		24.0 (19.1–28.9)		27.2 (22.3–32.2)		24.6 (19.9–29.3)		26.3 (21.5–31.2)	
5914 Thompson/Cariboo/Shuswap		26.9 (20.7–33.2)		19.4 (13.6–25.3)		27.7 (21.5–33.9)		26.2 (19.9–32.4)		27.5 (21.2–33.8)	
5921 Fraser East		20.6 (15.9–25.3)		24.9 (19.5–30.3)		23.0 (18.1–28.0)		25.3 (20.4–30.3)		19.8 (15.2–24.4)	
5922 Fraser North		25.3 (22.6–27.9)		22.9 (20.4–25.4)		25.2 (22.6–27.8)		26.0 (23.4–28.6)		23.8 (21.3–26.3)	
5923 Fraser South		24.4 (21.6–27.1)		25.5 (22.8–28.2)		25.1 (22.3–27.9)		25.0 (22.4–27.7)		24.8 (22.1–27.4)	
5931 Richmond		28.7 (23.8–33.5)		23.6 (19.2–28.1)		28.9 (23.9–34.0)		25.7 (21.3–30.1)		26.5 (21.8–31.2)	
5932 Vancouver		25.5 (23.1–27.8)		26.3 (23.9–28.6)		26.1 (23.8–28.3)		26.9 (24.6–29.2)		28.0 (25.8–30.2)	
5933 North Shore		23.6 (20.0–27.1)		22.8 (19.2–26.4)		27.2 (23.6–30.7)		25.3 (21.7–28.9)		28.4 (24.6–32.3)	
5941 South Vancouver Island		27.8 (23.5–32.0)		26.9 (22.7–31.1)		29.7 (25.6–33.9)		32.2 (28.0–36.3)		30.9 (26.9–35.0)	
5942 Central Vancouver Island		20.3 (15.2–25.5)		30.2 (24.1–36.4)		20.3 (15.0–25.6)		23.9 (18.1–29.7)		24.2 (18.6–29.8)	
5943 North Vancouver Island		26.0 (18.3–33.8)		26.0 (18.4–33.5)		24.5 (15.8–33.2)		24.3 (16.5–32.2)		20.7 (13.4–27.9)	
5951 Northwest		20.0 (12.2–27.8)		33.3 (23.3–43.4)		29.5 (20.8–38.2)		18.8 (10.5–27.1)		20.2 (11.6–28.8)	
5952 Northern Interior		25.2 (17.9–32.5)		21.0 (14.2–27.8)		24.2 (17.6–30.8)		24.4 (17.1–31.8)		19.4 (12.6–26.2)	
Yukon Territory		42.6 (28.4–56.7)		**		30.2 (17.8–42.5)		38.5 (23.2–53.7)		16.4 (6.6–26.1)	
Northwest Territories		*	*	27.1 (16.7–37.6)		24.7 (14.8–34.5)		21.2 (11.3–31.1)		20.6 (11.0–30.2)	
Nunavut		*	*	*	*	**	**	**	**	**	**

Notes: Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data are not shown, since the ICD-10-CA and CCI coding classification system had not yet been adopted by the province/territory. Nunavut did not submit data to CIHI in 2002–2003.

** Data were suppressed due to rate instability or under-reporting. Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-11. Low Birth Weight Rate (<2,500 Grams), by Health Region and Province/Territory, Canada

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		5.4	(4.8–6.1)	5.2	(4.5–5.8)	5.4	(4.8–6.1)	6.1	(5.4–6.8)	6.0	(5.3–6.7)
	1011 Eastern, N.L.	5.4	(4.5–6.2)	5.8	(4.9–6.7)	5.9	(5.0–6.8)	6.4	(5.4–7.3)	6.1	(5.2–7.0)
	1012 Central, N.L.	4.5	(2.9–6.0)	4.1	(2.7–5.4)	4.1	(2.7–5.4)	6.8	(5.1–8.6)	5.1	(3.5–6.7)
	1013 Western, N.L.	6.0	(4.3–7.8)	4.7	(3.0–6.3)	4.9	(3.2–6.5)	5.6	(3.8–7.3)	7.7	(5.5–9.9)
Prince Edward Island		3.7	(2.7–4.8)	4.7	(3.6–5.9)	4.4	(3.4–5.5)	5.4	(4.2–6.6)	5.0	(3.9–6.2)
Nova Scotia		5.5	(5.1–6.0)	5.7	(5.2–6.2)	5.2	(4.8–5.7)	5.7	(5.2–6.2)	6.1	(5.6–6.6)
	1201 Zone 1, N.S.	6.8	(5.3–8.3)	5.9	(4.4–7.3)	5.5	(4.0–6.9)	5.6	(4.1–7.1)	6.4	(4.7–8.0)
	1202 Zone 2, N.S.	5.2	(3.6–6.8)	5.4	(3.8–7.1)	5.4	(3.6–7.1)	5.6	(3.8–7.3)	7.2	(5.3–9.1)
	1203 Zone 3, N.S.	4.5	(3.3–5.8)	6.0	(4.5–7.5)	5.0	(3.7–6.4)	4.4	(3.1–5.7)	6.9	(5.3–8.5)
	1204 Zone 4, N.S.	5.6	(4.0–7.1)	4.7	(3.3–6.2)	5.2	(3.7–6.7)	4.5	(3.1–5.9)	5.0	(3.5–6.5)
	1205 Zone 5, N.S.	5.7	(4.3–7.1)	5.2	(3.9–6.6)	4.1	(2.9–5.3)	6.6	(5.1–8.1)	5.5	(4.1–6.8)
	1206 Zone 6, N.S.	5.4	(4.7–6.1)	6.0	(5.2–6.7)	5.5	(4.8–6.2)	6.1	(5.4–6.9)	5.9	(5.2–6.7)
New Brunswick		5.0	(4.5–5.5)	5.7	(5.2–6.3)	5.2	(4.7–5.8)	5.6	(5.0–6.1)	6.3	(5.7–6.9)
	1301 Region 1, N.B. (Moncton area)	4.3	(3.3–5.2)	5.7	(4.7–6.8)	5.5	(4.4–6.6)	5.9	(4.8–7.0)	6.8	(5.6–7.9)
	1302 Region 2, N.B. (Saint John area)	4.9	(3.9–5.9)	5.2	(4.2–6.3)	5.0	(3.9–6.0)	5.1	(4.0–6.2)	5.7	(4.6–6.9)
	1303 Region 3, N.B. (Fredericton area)	5.1	(4.1–6.1)	5.9	(4.8–7.0)	5.4	(4.4–6.5)	5.8	(4.8–6.9)	6.5	(5.4–7.7)
	1306 Region 6, N.B. (Bathurst area)	5.0	(3.3–6.6)	6.6	(4.7–8.5)	6.4	(4.4–8.3)	*	*	7.2	(5.0–9.4)
Quebec		5.5	(5.4–5.7)	5.6	(5.5–5.8)	5.8	(5.6–6.0)	5.9	(5.7–6.0)	5.7	(5.5–5.8)
	2401 Bas-Saint-Laurent	5.5	(4.4–6.6)	5.5	(4.4–6.7)	6.0	(4.8–7.1)	6.0	(4.8–7.2)	5.5	(4.4–6.5)
	2402 Saguenay-Lac-Saint-Jean	5.2	(4.3–6.0)	5.3	(4.4–6.2)	4.8	(4.0–5.7)	5.6	(4.7–6.5)	5.5	(4.6–6.4)
	2403 Capitale nationale	5.4	(4.8–6.0)	5.2	(4.6–5.8)	5.5	(4.9–6.1)	5.6	(5.0–6.2)	5.2	(4.6–5.7)
	2404 Mauricie et Centre-du-Québec	5.5	(4.8–6.2)	5.7	(5.0–6.5)	5.7	(5.0–6.4)	5.8	(5.1–6.5)	5.6	(4.9–6.3)
	2405 Estrie	6.2	(5.3–7.1)	6.4	(5.5–7.4)	6.1	(5.2–7.0)	6.3	(5.4–7.2)	6.5	(5.6–7.4)
	2406 Montréal	5.6	(5.3–5.9)	5.8	(5.5–6.2)	6.1	(5.8–6.5)	6.1	(5.8–6.5)	6.0	(5.7–6.3)
	2407 Outaouais	5.8	(5.0–6.6)	6.0	(5.2–6.8)	6.5	(5.7–7.4)	6.1	(5.3–6.9)	5.7	(4.9–6.4)
	2408 Abitibi-Témiscamingue	5.7	(4.5–6.9)	6.2	(5.0–7.5)	6.6	(5.3–7.8)	6.2	(5.0–7.5)	6.9	(5.6–8.2)
	2409 Côte-Nord	3.9	(2.7–5.1)	6.0	(4.5–7.5)	5.7	(4.3–7.2)	5.2	(3.8–6.6)	6.7	(5.1–8.3)
	2411 Gaspésie-Îles-de-la-Madeleine	6.9	(5.0–8.8)	5.4	(3.7–7.1)	5.6	(3.9–7.3)	6.5	(4.6–8.3)	7.0	(5.1–8.9)
	2412 Chaudière-Appalaches	5.4	(4.7–6.1)	4.4	(3.8–5.1)	4.9	(4.2–5.6)	5.5	(4.8–6.3)	4.8	(4.2–5.5)
	2413 Laval	6.0	(5.2–6.7)	5.5	(4.7–6.2)	5.7	(5.0–6.5)	5.2	(4.4–5.9)	5.6	(4.9–6.4)
	2414 Lanaudière	5.8	(5.1–6.6)	6.3	(5.5–7.1)	6.0	(5.2–6.8)	6.1	(5.3–6.9)	6.1	(5.3–6.8)
	2415 Laurentides	6.0	(5.3–6.6)	4.8	(4.2–5.4)	5.6	(5.0–6.2)	5.5	(4.9–6.2)	5.6	(5.0–6.2)
	2416 Montérégie	5.1	(4.7–5.5)	5.7	(5.3–6.1)	5.7	(5.3–6.1)	5.8	(5.4–6.2)	5.2	(4.8–5.6)
Ontario		5.9	(5.7–6.0)	6.1	(5.9–6.2)	6.3	(6.2–6.5)	6.3	(6.1–6.4)	6.4	(6.3–6.6)
	3501 Erie St. Clair	5.3	(4.8–5.8)	5.7	(5.2–6.3)	6.0	(5.4–6.6)	6.2	(5.6–6.7)	5.7	(5.1–6.2)
	3502 South West	5.9	(5.4–6.4)	5.5	(5.1–6.0)	5.9	(5.4–6.3)	5.9	(5.4–6.4)	6.4	(5.9–6.9)
	3503 Waterloo Wellington	5.4	(4.9–5.9)	6.1	(5.5–6.6)	5.4	(4.9–5.9)	5.5	(5.0–6.0)	5.7	(5.2–6.2)
	3504 Hamilton Niagara Haldimand Brant	5.3	(4.9–5.7)	6.0	(5.6–6.4)	6.1	(5.7–6.5)	6.0	(5.6–6.4)	6.2	(5.8–6.6)
	3505 Central West	6.9	(6.4–7.4)	6.8	(6.3–7.3)	7.9	(7.4–8.4)	7.3	(6.8–7.8)	7.4	(6.9–7.8)
	3506 Mississauga Halton	5.9	(5.5–6.3)	6.3	(5.9–6.8)	6.1	(5.7–6.6)	6.3	(5.8–6.7)	6.2	(5.8–6.7)
	3507 Toronto Central	6.2	(5.8–6.6)	6.3	(5.9–6.7)	6.8	(6.4–7.2)	6.4	(5.9–6.8)	6.5	(6.1–7.0)
	3508 Central	6.2	(5.8–6.6)	6.0	(5.6–6.3)	6.5	(6.1–6.8)	6.5	(6.1–6.8)	6.7	(6.3–7.0)
	3509 Central East	6.0	(5.6–6.4)	6.6	(6.2–7.0)	6.7	(6.3–7.1)	6.8	(6.4–7.2)	6.9	(6.5–7.3)
	3510 South East	5.4	(4.7–6.1)	5.9	(5.2–6.7)	6.4	(5.6–7.1)	6.4	(5.7–7.1)	6.6	(5.9–7.3)
	3511 Champlain	5.7	(5.3–6.1)	6.0	(5.5–6.4)	5.9	(5.4–6.3)	6.0	(5.5–6.4)	5.9	(5.5–6.4)
	3512 North Simcoe Muskoka	5.2	(4.5–5.9)	5.1	(4.4–5.7)	5.5	(4.8–6.2)	5.8	(5.0–6.5)	5.9	(5.2–6.6)
	3513 North East	5.7	(5.1–6.3)	5.4	(4.8–6.0)	6.2	(5.5–6.9)	5.3	(4.7–6.0)	6.1	(5.5–6.8)
	3514 North West	3.8	(3.0–4.5)	4.5	(3.7–5.2)	4.1	(3.4–4.9)	4.6	(3.8–5.5)	5.6	(4.8–6.5)

continued

Table B-11. Low Birth Weight Rate (<2,500 Grams), by Health Region and Province/Territory, Canada (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		5.3	(4.9–5.7)	5.2	(4.8–5.6)	5.5	(5.2–5.9)	5.6	(5.2–5.9)	5.4	(5.0–5.7)
4610	Winnipeg	5.3	(4.7–5.8)	5.5	(4.9–6.0)	5.9	(5.4–6.5)	6.2	(5.7–6.8)	6.0	(5.4–6.5)
4630	Interlake	4.8	(3.3–6.2)	3.5	(2.2–4.8)	6.4	(4.7–8.1)	5.4	(3.8–7.0)	6.6	(4.9–8.3)
4640	Central	4.5	(3.3–5.6)	4.0	(2.9–5.1)	4.9	(3.7–6.1)	3.2	(2.3–4.2)	4.3	(3.3–5.4)
Saskatchewan		5.2	(4.8–5.6)	5.2	(4.8–5.6)	5.5	(5.1–5.9)	5.6	(5.1–6.0)	5.7	(5.3–6.1)
4704	Regina	6.0	(5.1–6.9)	5.1	(4.3–6.0)	6.0	(5.2–6.9)	6.0	(5.1–6.9)	5.8	(5.0–6.7)
4706	Saskatoon	6.3	(5.5–7.1)	5.2	(4.4–5.9)	5.6	(4.9–6.4)	5.9	(5.1–6.7)	6.1	(5.2–6.9)
4709	Prince Albert	5.2	(3.8–6.5)	3.8	(2.6–4.9)	4.0	(2.8–5.2)	5.0	(3.7–6.4)	6.0	(4.5–7.4)
Alberta		6.2	(6.0–6.5)	6.4	(6.1–6.6)	6.4	(6.2–6.7)	6.3	(6.1–6.5)	6.9	(6.7–7.1)
4820	Chinook	5.9	(4.8–6.9)	5.0	(4.0–6.0)	5.2	(4.3–6.1)	5.6	(4.6–6.6)	5.9	(4.9–6.9)
4821	Palliser	6.5	(5.1–7.9)	7.0	(5.6–8.4)	6.0	(4.7–7.4)	4.5	(3.3–5.6)	6.1	(4.7–7.4)
4822	Calgary	6.7	(6.3–7.1)	7.2	(6.8–7.6)	7.2	(6.8–7.6)	7.0	(6.6–7.4)	7.8	(7.3–8.2)
4823	David Thompson	6.1	(5.3–6.9)	6.3	(5.5–7.1)	5.5	(4.8–6.3)	5.8	(5.0–6.5)	6.7	(5.9–7.5)
4824	East Central	6.3	(4.9–7.8)	5.8	(4.5–7.1)	6.8	(5.4–8.2)	6.5	(5.2–7.9)	6.2	(4.8–7.5)
4825	Capital	6.3	(5.8–6.8)	6.3	(5.8–6.7)	6.6	(6.2–7.1)	6.4	(6.0–6.9)	7.0	(6.5–7.4)
4826	Aspen	5.6	(4.6–6.5)	5.6	(4.7–6.6)	6.0	(5.0–7.0)	5.8	(4.9–6.7)	5.6	(4.7–6.5)
4827	Peace Country	5.0	(4.0–5.9)	4.5	(3.6–5.4)	4.3	(3.4–5.2)	5.1	(4.1–6.0)	5.0	(4.0–5.9)
British Columbia		5.1	(4.9–5.3)	5.6	(5.3–5.8)	5.5	(5.3–5.7)	5.7	(5.5–5.9)	5.8	(5.6–6.1)
5911	East Kootenay	6.0	(4.2–7.9)	5.1	(3.4–6.7)	6.3	(4.4–8.1)	5.6	(3.8–7.3)	6.8	(4.9–8.7)
5912	Kootenay Boundary	6.2	(4.2–8.2)	6.8	(4.7–9.0)	4.9	(3.0–6.7)	6.4	(4.4–8.5)	5.7	(3.8–7.6)
5913	Okanagan	5.1	(4.2–5.9)	5.4	(4.6–6.3)	5.0	(4.2–5.9)	6.2	(5.2–7.1)	5.5	(4.6–6.4)
5914	Thompson/Cariboo/Shuswap	6.0	(4.9–7.1)	6.1	(5.0–7.2)	6.5	(5.3–7.6)	5.0	(4.0–6.0)	5.6	(4.5–6.6)
5921	Fraser East	5.1	(4.3–5.9)	4.3	(3.6–5.1)	4.9	(4.2–5.7)	5.5	(4.7–6.4)	5.0	(4.2–5.7)
5922	Fraser North	5.0	(4.4–5.6)	5.7	(5.1–6.3)	5.7	(5.1–6.4)	6.3	(5.7–7.0)	5.7	(5.1–6.3)
5923	Fraser South	5.4	(4.9–6.0)	5.6	(5.0–6.1)	5.4	(4.8–5.9)	5.7	(5.2–6.3)	6.7	(6.1–7.3)
5931	Richmond	4.5	(3.4–5.5)	5.8	(4.6–6.9)	6.2	(4.9–7.4)	5.4	(4.3–6.5)	5.2	(4.1–6.3)
5932	Vancouver	4.9	(4.3–5.4)	5.9	(5.3–6.5)	6.0	(5.4–6.6)	6.0	(5.4–6.6)	6.3	(5.7–7.0)
5933	North Shore	4.8	(3.9–5.7)	4.8	(4.0–5.7)	4.8	(3.9–5.6)	5.2	(4.2–6.1)	4.8	(3.9–5.7)
5941	South Vancouver Island	5.2	(4.3–6.0)	6.5	(5.5–7.4)	5.2	(4.4–6.1)	5.6	(4.7–6.5)	5.7	(4.8–6.5)
5942	Central Vancouver Island	4.1	(3.2–4.9)	5.3	(4.3–6.3)	5.6	(4.6–6.6)	4.5	(3.5–5.4)	6.1	(5.0–7.1)
5943	North Vancouver Island	5.0	(3.6–6.3)	5.5	(4.1–6.9)	6.5	(4.9–8.0)	4.9	(3.5–6.2)	4.3	(3.0–5.6)
5951	Northwest	4.4	(3.1–5.7)	3.4	(2.3–4.5)	4.0	(2.7–5.2)	4.6	(3.2–5.9)	6.2	(4.7–7.8)
5952	Northern Interior	5.1	(4.0–6.2)	6.8	(5.5–8.1)	5.2	(4.1–6.3)	5.4	(4.3–6.5)	5.2	(4.1–6.3)
Yukon Territory		3.9	(1.8–6.0)	3.6	(1.5–5.7)	4.5	(2.2–6.7)	4.4	(2.2–6.6)	4.7	(2.5–7.0)
Northwest Territories		5.6	(3.8–7.4)	3.7	(2.2–5.1)	5.4	(3.8–7.0)	5.1	(3.5–6.7)	4.4	(2.9–5.9)
Nunavut		8.4	(6.1–10.7)	6.5	(3.2–9.8)	7.3	(5.1–9.4)	7.4	(5.5–9.3)	7.3	(5.4–9.3)

Notes: These data are based on in-hospital births with known birth weight. Births that occurred outside of an acute inpatient hospital are not captured in this indicator. Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

Table B-12. Low Birth Weight Rate (< 2,500 Grams, Excluding < 500 Grams), by Health Region and Province/Territory

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Newfoundland and Labrador		5.4	(4.7–6.0)	5.0	(4.3–5.6)	5.4	(4.7–6.0)	5.9	(5.2–6.6)	5.8	(5.1–6.5)
	1011 Eastern, N.L.	5.3	(4.5–6.2)	5.6	(4.7–6.5)	5.8	(4.9–6.7)	6.1	(5.2–7.1)	5.9	(5.0–6.8)
	1012 Central, N.L.	4.5	(2.9–6.0)	4.0	(2.6–5.3)	3.9	(2.6–5.3)	6.7	(5.0–8.5)	5.0	(3.4–6.5)
	1013 Western, N.L.	6.0	(4.3–7.8)	4.4	(2.8–6.0)	4.9	(3.2–6.5)	5.6	(3.8–7.3)	7.5	(5.4–9.7)
Prince Edward Island		3.7	(2.7–4.8)	4.7	(3.6–5.9)	4.4	(3.3–5.4)	5.4	(4.2–6.6)	5.0	(3.9–6.2)
Nova Scotia		5.4	(5.0–5.9)	5.7	(5.2–6.2)	5.1	(4.7–5.6)	5.6	(5.1–6.1)	6.1	(5.6–6.6)
	1201 Zone 1, N.S.	6.5	(5.0–8.0)	5.7	(4.2–7.1)	5.5	(4.0–6.9)	5.6	(4.1–7.1)	6.4	(4.7–8.0)
	1202 Zone 2, N.S.	5.2	(3.6–6.8)	5.4	(3.8–7.1)	5.4	(3.6–7.1)	5.6	(3.8–7.3)	7.2	(5.3–9.1)
	1203 Zone 3, N.S.	4.5	(3.2–5.7)	6.0	(4.5–7.5)	5.0	(3.7–6.4)	4.2	(2.9–5.5)	6.9	(5.3–8.5)
	1204 Zone 4, N.S.	5.4	(3.8–6.9)	4.7	(3.3–6.2)	5.0	(3.6–6.5)	4.5	(3.1–5.9)	4.6	(3.2–6.1)
	1205 Zone 5, N.S.	5.6	(4.2–7.0)	5.2	(3.8–6.5)	4.1	(2.9–5.3)	6.6	(5.1–8.1)	5.5	(4.1–6.8)
	1206 Zone 6, N.S.	5.3	(4.6–6.0)	5.9	(5.2–6.7)	5.4	(4.7–6.1)	6.0	(5.3–6.8)	5.9	(5.2–6.7)
New Brunswick		4.9	(4.4–5.4)	5.7	(5.1–6.2)	5.2	(4.7–5.7)	5.2	(4.6–5.7)	6.3	(5.7–6.8)
	1301 Region 1, N.B. (Moncton area)	4.1	(3.2–5.0)	5.7	(4.7–6.8)	5.4	(4.4–6.5)	5.8	(4.7–6.9)	6.7	(5.5–7.8)
	1302 Region 2, N.B. (Saint John area)	4.9	(3.8–5.9)	5.2	(4.1–6.2)	5.0	(3.9–6.0)	5.1	(4.0–6.2)	5.7	(4.6–6.8)
	1303 Region 3, N.B. (Fredericton area)	5.0	(4.0–6.0)	5.9	(4.8–7.0)	5.4	(4.4–6.5)	5.8	(4.7–6.9)	6.5	(5.3–7.6)
	1306 Region 6, N.B. (Bathurst area)	5.0	(3.3–6.6)	6.6	(4.7–8.5)	6.4	(4.4–8.3)	*	*	7.2	(5.0–9.4)
Quebec		5.4	(5.3–5.6)	5.5	(5.4–5.7)	5.7	(5.5–5.9)	5.8	(5.6–5.9)	5.5	(5.4–5.7)
	2401 Bas-Saint-Laurent	5.4	(4.3–6.5)	5.5	(4.4–6.7)	5.9	(4.8–7.0)	5.8	(4.6–7.0)	5.4	(4.3–6.4)
	2402 Saguenay-Lac-Saint-Jean	5.1	(4.3–6.0)	5.2	(4.4–6.1)	4.7	(3.8–5.5)	5.5	(4.6–6.4)	5.4	(4.5–6.3)
	2403 Capitale nationale	5.2	(4.7–5.8)	5.1	(4.5–5.7)	5.5	(4.9–6.1)	5.4	(4.8–6.0)	5.1	(4.6–5.7)
	2404 Mauricie et Centre-du-Québec	5.4	(4.7–6.1)	5.7	(4.9–6.4)	5.5	(4.8–6.2)	5.7	(5.0–6.4)	5.5	(4.8–6.1)
	2405 Estrie	6.2	(5.3–7.1)	6.4	(5.5–7.3)	6.0	(5.2–6.9)	6.3	(5.4–7.2)	6.4	(5.5–7.3)
	2406 Montréal	5.5	(5.2–5.8)	5.7	(5.4–6.1)	6.0	(5.7–6.4)	6.0	(5.7–6.4)	5.9	(5.6–6.2)
	2407 Outaouais	5.5	(4.7–6.3)	5.8	(5.0–6.6)	6.4	(5.5–7.2)	6.0	(5.2–6.8)	5.6	(4.9–6.4)
	2408 Abitibi-Témiscamingue	5.6	(4.5–6.8)	6.2	(5.0–7.5)	6.5	(5.2–7.8)	6.0	(4.7–7.2)	6.9	(5.6–8.2)
	2409 Côte-Nord	3.9	(2.7–5.1)	5.9	(4.4–7.4)	5.6	(4.2–7.1)	5.2	(3.8–6.6)	6.5	(5.0–8.1)
	2411 Gaspésie-Îles-de-la-Madeleine	6.9	(5.0–8.8)	5.4	(3.7–7.1)	5.3	(3.6–7.0)	6.3	(4.5–8.1)	6.9	(5.0–8.8)
	2412 Chaudière-Appalaches	5.3	(4.5–6.0)	4.2	(3.5–4.9)	4.8	(4.2–5.5)	5.4	(4.7–6.2)	4.8	(4.1–5.4)
	2413 Laval	5.8	(5.1–6.6)	5.4	(4.6–6.1)	5.7	(4.9–6.4)	5.0	(4.3–5.8)	5.3	(4.6–6.1)
	2414 Lanaudière	5.7	(5.0–6.5)	6.1	(5.3–6.9)	5.9	(5.1–6.6)	6.1	(5.3–6.9)	6.0	(5.3–6.7)
	2415 Laurentides	5.9	(5.2–6.5)	4.7	(4.1–5.3)	5.5	(4.9–6.1)	5.5	(4.8–6.1)	5.5	(4.9–6.1)
	2416 Montérégie	5.0	(4.7–5.4)	5.6	(5.2–6.0)	5.6	(5.2–6.0)	5.7	(5.3–6.1)	5.1	(4.7–5.4)
Ontario		5.8	(5.7–5.9)	6.0	(5.8–6.1)	6.2	(6.1–6.3)	6.2	(6.0–6.3)	6.3	(6.2–6.4)
	3501 Erie St. Clair	5.3	(4.7–5.8)	5.6	(5.1–6.2)	5.9	(5.3–6.5)	6.1	(5.6–6.7)	5.6	(5.1–6.2)
	3502 South West	5.9	(5.4–6.3)	5.5	(5.0–6.0)	5.7	(5.3–6.2)	5.8	(5.4–6.3)	6.3	(5.8–6.8)
	3503 Waterloo Wellington	5.3	(4.8–5.8)	6.0	(5.4–6.5)	5.4	(4.9–5.9)	5.5	(4.9–6.0)	5.7	(5.2–6.2)
	3504 Hamilton Niagara Haldimand Brant	5.2	(4.9–5.6)	5.9	(5.5–6.3)	6.1	(5.6–6.5)	5.9	(5.5–6.3)	6.0	(5.6–6.4)
	3505 Central West	6.8	(6.3–7.3)	6.6	(6.1–7.1)	7.7	(7.2–8.2)	7.1	(6.6–7.6)	7.2	(6.7–7.7)
	3506 Mississauga Halton	5.8	(5.4–6.3)	6.3	(5.8–6.7)	6.0	(5.6–6.4)	6.2	(5.7–6.6)	6.1	(5.7–6.5)
	3507 Toronto Central	6.0	(5.6–6.4)	6.2	(5.7–6.6)	6.7	(6.3–7.1)	6.2	(5.8–6.6)	6.3	(5.9–6.7)
	3508 Central	6.1	(5.8–6.5)	5.8	(5.4–6.1)	6.3	(5.9–6.7)	6.3	(5.9–6.6)	6.5	(6.2–6.9)
	3509 Central East	6.0	(5.6–6.3)	6.5	(6.1–6.9)	6.6	(6.2–7.0)	6.7	(6.3–7.1)	6.8	(6.4–7.2)
	3510 South East	5.3	(4.7–6.0)	5.9	(5.2–6.6)	6.4	(5.6–7.1)	6.3	(5.6–7.0)	6.5	(5.8–7.3)
	3511 Champlain	5.6	(5.1–6.0)	5.9	(5.4–6.3)	5.7	(5.3–6.1)	5.8	(5.4–6.2)	5.8	(5.4–6.3)
	3512 North Simcoe Muskoka	5.1	(4.4–5.8)	4.9	(4.2–5.6)	5.4	(4.7–6.1)	5.7	(5.0–6.4)	5.7	(5.0–6.4)
	3513 North East	5.6	(5.0–6.2)	5.4	(4.7–6.0)	6.1	(5.4–6.8)	5.2	(4.6–5.8)	5.9	(5.3–6.6)
	3514 North West	3.8	(3.0–4.5)	4.4	(3.6–5.2)	4.1	(3.3–4.8)	4.6	(3.8–5.5)	5.5	(4.6–6.4)

continued

Table B-12. Low Birth Weight Rate (< 2,500 Grams, Excluding < 500 Grams), by Health Region and Province/Territory (cont'd)

Map Code	Health Region	2001–2002		2002–2003		2003–2004		2004–2005		2005–2006	
		%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Manitoba		5.2	(4.9–5.6)	5.0	(4.6–5.4)	5.4	(5.0–5.8)	5.4	(5.0–5.8)	5.2	(4.9–5.6)
4610	Winnipeg	5.2	(4.7–5.7)	5.3	(4.8–5.8)	5.8	(5.2–6.3)	6.1	(5.5–6.6)	5.8	(5.3–6.3)
4630	Interlake	4.8	(3.3–6.2)	3.2	(2.0–4.5)	6.2	(4.5–7.9)	5.3	(3.7–6.9)	6.6	(4.9–8.3)
4640	Central	4.5	(3.3–5.6)	3.9	(2.9–5.0)	4.6	(3.5–5.7)	2.9	(2.0–3.8)	4.2	(3.1–5.2)
Saskatchewan		5.1	(4.7–5.5)	5.1	(4.7–5.5)	5.4	(5.0–5.8)	5.5	(5.0–5.9)	5.6	(5.2–6.0)
4704	Regina	5.8	(5.0–6.7)	5.1	(4.3–6.0)	5.9	(5.1–6.8)	5.9	(5.0–6.8)	5.7	(4.8–6.6)
4706	Saskatoon	6.2	(5.4–7.0)	5.1	(4.3–5.8)	5.6	(4.8–6.4)	5.8	(5.0–6.7)	5.9	(5.1–6.7)
4709	Prince Albert	5.1	(3.7–6.4)	3.8	(2.6–4.9)	4.0	(2.8–5.2)	4.9	(3.6–6.3)	5.9	(4.4–7.3)
Alberta		6.1	(5.9–6.4)	6.2	(6.0–6.5)	6.3	(6.0–6.5)	6.1	(5.9–6.4)	6.7	(6.5–7.0)
4820	Chinook	5.8	(4.7–6.9)	4.9	(3.9–5.8)	5.0	(4.1–6.0)	5.5	(4.5–6.5)	5.7	(4.7–6.7)
4821	Palliser	6.5	(5.1–7.8)	7.0	(5.6–8.4)	5.7	(4.4–7.0)	4.5	(3.3–5.6)	6.0	(4.6–7.3)
4822	Calgary	6.6	(6.2–7.1)	7.0	(6.6–7.4)	7.1	(6.7–7.5)	6.8	(6.4–7.2)	7.6	(7.2–8.0)
4823	David Thompson	6.0	(5.2–6.8)	6.1	(5.4–6.9)	5.3	(4.6–6.0)	5.7	(4.9–6.4)	6.5	(5.7–7.3)
4824	East Central	6.2	(4.7–7.6)	5.7	(4.4–7.0)	6.5	(5.1–7.9)	6.5	(5.1–7.8)	6.0	(4.7–7.3)
4825	Capital	6.2	(5.7–6.6)	6.2	(5.7–6.6)	6.4	(6.0–6.9)	6.2	(5.7–6.6)	6.8	(6.4–7.3)
4826	Aspen	5.5	(4.6–6.4)	5.4	(4.5–6.3)	5.8	(4.8–6.7)	5.5	(4.6–6.4)	5.4	(4.5–6.3)
4827	Peace Country	4.8	(3.9–5.8)	4.3	(3.4–5.2)	4.2	(3.3–5.0)	4.9	(4.0–5.9)	4.7	(3.8–5.6)
British Columbia		5.0	(4.8–5.2)	5.5	(5.3–5.7)	5.4	(5.2–5.6)	5.6	(5.4–5.8)	5.7	(5.5–5.9)
5911	East Kootenay	6.0	(4.2–7.9)	5.1	(3.4–6.7)	6.1	(4.3–8.0)	5.4	(3.7–7.2)	6.8	(4.9–8.7)
5912	Kootenay Boundary	6.2	(4.2–8.2)	6.8	(4.7–9.0)	4.9	(3.0–6.7)	6.4	(4.4–8.5)	5.7	(3.8–7.6)
5913	Okanagan	5.0	(4.2–5.9)	5.4	(4.5–6.3)	5.0	(4.2–5.9)	6.0	(5.1–7.0)	5.4	(4.5–6.3)
5914	Thompson/Cariboo/Shuswap	5.9	(4.8–7.0)	6.0	(4.9–7.1)	6.4	(5.3–7.5)	5.0	(4.0–6.0)	5.5	(4.5–6.5)
5921	Fraser East	5.0	(4.2–5.8)	4.2	(3.5–5.0)	4.8	(4.1–5.6)	5.5	(4.7–6.3)	4.8	(4.1–5.6)
5922	Fraser North	4.9	(4.3–5.5)	5.6	(5.0–6.2)	5.6	(5.0–6.2)	6.2	(5.6–6.8)	5.5	(4.9–6.2)
5923	Fraser South	5.4	(4.8–5.9)	5.4	(4.9–6.0)	5.2	(4.7–5.7)	5.6	(5.1–6.2)	6.6	(6.0–7.2)
5931	Richmond	4.3	(3.3–5.4)	5.5	(4.4–6.7)	6.1	(4.9–7.3)	5.4	(4.2–6.5)	5.2	(4.1–6.3)
5932	Vancouver	4.8	(4.3–5.4)	5.8	(5.2–6.4)	5.9	(5.3–6.5)	5.9	(5.3–6.5)	6.1	(5.5–6.8)
5933	North Shore	4.5	(3.6–5.3)	4.7	(3.8–5.6)	4.7	(3.9–5.6)	5.0	(4.1–5.9)	4.8	(3.9–5.7)
5941	South Vancouver Island	5.0	(4.1–5.8)	6.5	(5.5–7.4)	5.0	(4.2–5.8)	5.4	(4.6–6.3)	5.6	(4.7–6.4)
5942	Central Vancouver Island	4.0	(3.1–4.9)	5.3	(4.3–6.3)	5.6	(4.5–6.6)	4.4	(3.4–5.3)	6.0	(5.0–7.0)
5943	North Vancouver Island	5.0	(3.6–6.3)	5.4	(4.0–6.8)	6.5	(4.9–8.0)	4.8	(3.4–6.1)	4.2	(2.9–5.5)
5951	Northwest	4.0	(2.8–5.3)	3.3	(2.2–4.4)	3.9	(2.6–5.1)	4.3	(3.0–5.6)	6.2	(4.7–7.8)
5952	Northern Interior	5.0	(3.9–6.1)	6.8	(5.5–8.1)	5.2	(4.1–6.3)	5.4	(4.2–6.5)	5.1	(4.1–6.2)
Yukon Territory		3.9	(1.8–6.0)	3.6	(1.5–5.7)	3.9	(1.8–5.9)	3.6	(1.6–5.5)	4.5	(2.2–6.7)
Northwest Territories		5.4	(3.7–7.2)	3.2	(1.9–4.6)	5.1	(3.5–6.7)	5.1	(3.5–6.7)	4.2	(2.8–5.7)
Nunavut		8.4	(6.1–10.7)	6.5	(3.2–9.8)	7.3	(5.1–9.4)	7.3	(5.4–9.1)	7.2	(5.3–9.1)

Notes: These data are based on in-hospital births with known birth weight. Births that occurred outside of an acute inpatient hospital are not captured in this indicator. Results are presented for a patient's region of residence, rather than the location of the facility where hospitalization occurred.

* Data from Region 6 in New Brunswick in 2004–2005 were suppressed due to incomplete data submission. Data from this region were excluded from the provincial rate, but included in the Canadian estimate.

Sources: Discharge Abstract Database and Hospital Morbidity Database, CIHI.

References

1. Canadian Institute for Health Information, *Giving Birth in Canada: A Regional Profile, 2004* (Ottawa: CIHI, 2004).
2. L. Leeman et al., "The Nature and Management of Labor Pain: Part II. Pharmacologic Pain Relief," *American Family Physician* 68, 6 (2003): pp. 1115–1120.
3. B. A. Bucklin et al., "Obstetric Anesthesia Workforce Survey: Twenty-Year Update," *Anesthesiology* 103, 3 (2005): pp. 645–653.
4. A. Richardson and C. Mmata, *NHS Maternity Statistics, England: 2005–06* (London: The Information Centre, 2007), [online], cited July 9, 2007, from <<http://www.ic.nhs.uk/webfiles/publications/maternity0506/NHSMaternityStatsEngland200506.pdf>>, ISBN 1-84636-137-0, Bulletin IC 2007 10. Copyright 2007, re-used with the permission of The Information Centre. All rights reserved.
5. P. J. Laws, N. Grayson and E. A. Sullivan, *Australia's Mothers and Babies in 2004* (Sydney: AIWH National Perinatal Statistics Unit, 2006), [online], cited May 22, 2007, from <<http://www.npsu.unsw.edu.au>>, catalogue no. PER 34.
6. Y. M. Cargill and C. J. MacKinnon, "Guidelines for Operative Vaginal Birth," *Journal of Obstetrics and Gynaecology Canada* 26, 8 (2004): pp. 747–753.
7. Center for Disease Control, "Births: Final Data for 2004," *National Vital Statistics Reports* 55, 1 (2006): pp. 1–104.
8. P. E. Bailey, "The Disappearing Art of Instrumental Delivery: Time to Reverse the Trend," *International Journal of Gynecology and Obstetrics* 91 (2005): pp. 89–96.
9. Health Canada, *Canadian Perinatal Health Report, 2003* (Ottawa: Minister of Public Works and Government Services Canada, 2003).
10. World Health Organization, "Appropriate Technology for Birth," *Lancet* 2 (1985): pp. 436–437.
11. A. P. Betran et al., "Rate of Caesarean Section: Analysis of Global, Regional and National Estimates," *Paediatric and Perinatal Epidemiology* 21 (2007): 98–113.
12. S. Liu et al., "Maternal Mortality and Severe Morbidity Associated With Low-Risk Planned Cesarean Delivery Versus Planned Vaginal Delivery at Term," *Canadian Medical Association Journal* 176, 4 (2007): pp.455–460.
13. M. F. MacDorman et al., "Infant and Neonatal Mortality for Primary Cesarean and Vaginal Births to Women With 'No Indicated Risk,' United States, 1998–2001 Birth Cohorts," *Birth* 33, 3 (2006): pp. 175–182.
14. Canadian Institute for Health Information, *Giving Birth in Canada: The Costs, 2006* (Ottawa: CIHI, 2006).

15. World Health Organization, *International Statistical Classification of Diseases and Related Health Problems, Tenth Revision* (Geneva: World Health Organization, 1992).
16. World Health Organization, *Low Birthweight: Country, Regional and Global Estimates* (Geneva: World Health Organization, 2004).
17. A. J. Wilcox, "On the Importance and the Unimportance of Birthweight," *International Journal of Epidemiology* 30, 6 (2001): pp. 1233–1241.
18. K. S. Joseph and M. S. Kramer, "Recent Trends in Canadian Infant Mortality Rates: Effect of Changes in Registration of Live Newborns Weighing Less Than 500 g," *Canadian Medical Association Journal* 155, 8 (1996): pp. 1047–1052.
19. T. R. Marmor and D. M. Krol, "Labor Pain Management in the United States: Understanding Patterns and the Issue of Choice," *American Journal of Obstetrics and Gynecology* 186, 5 (2002): pp. S173–S180.
20. H. K. Eltzschig, E. S. Lieberman and W. R. Camann, "Regional Anesthesia and Analgesia for Labor and Delivery," *New England Journal of Medicine* 348, 4 (2003): pp. 319–332.
21. M. Anim-Somuah, R. Smyth and C. Howell, "Epidural Versus Non-Epidural or No Analgesia in Labour," *Cochrane Database of Systematic Reviews*, Issue 4 (2005).
22. M. C. Klein, "Epidural Analgesia: Does It or Doesn't It?" *Birth* 33, 1 (2006): pp. 74–76.
23. R. B. Johanson and V. Menon, "Vacuum Extraction Versus Forceps for Assisted Vaginal Delivery," *Cochrane Database of Systematic Reviews*, Issue 2 (1999).
24. S. W. Wen et al., "Comparison of Maternal and Infant Outcomes Between Vacuum Extraction and Forceps Deliveries," *American Journal of Epidemiology* 153, 2 (2001): pp. 103–107.
25. S. Liu et al., "Recent Trends in Caesarean Delivery Rates and Indications for Caesarean Delivery in Canada," *Journal of Obstetrics and Gynaecology Canada* 26, 8 (2004): pp. 735–742.
26. K. S. Joseph et al., "Changes in Maternal Characteristics and Obstetric Practice and Recent Increases in Primary Cesarean Delivery," *Obstetrics and Gynecology* 102, 4 (2003): pp. 791–800.
27. Statistics Canada, *Births: Live Births, 2004* (Ottawa: Statistics Canada, 2006), catalogue no. 84F0210XIE.
28. M. Tjepkema, "Measured Obesity: Adult Obesity in Canada, Measured Height and Weight," *Nutrition: Findings From the Canadian Community Health Survey*, Issue 1 (Ottawa: Statistics Canada, 2005), catalogue no. 82-620-MWE2005001.
29. J. M. Green and H. A. Baston, "Have Women Become More Willing to Accept Obstetric Interventions and Does This Relate to Mode of Birth? Data From a Prospective Study," *Birth* 34, 1 (2007): pp. 6–13.

30. S. P. Walker et al., "Cesarean Delivery or Vaginal Birth: A Survey of Patient and Clinician Thresholds," *Obstetrics and Gynecology* 109, 1 (2007): pp. 67–72.
31. P. S. Bernstein, "Patient-Choice Cesarean Delivery: Really a Choice?," *Birth* 34, 1 (2007): pp. 89–90.
32. M. E. Hannah, "Planned Elective Cesarean Section: A Reasonable Choice for Some Women?" *Canadian Medical Association Journal* 170, 5 (2004): pp. 813–814.
33. M. C. Klein, "Quick Fix Culture: The Cesarean-Section-on-Demand Debate," *Birth* 31, 3 (2004): pp. 161–164.
34. K. Leeb et al., "Are There Socio-Economic Differences in Caesarean Section Rates in Canada?," *Healthcare Policy* 1, 1 (2005): pp. 48–54.
35. C. McCourt, "Elective Cesarean Section and Decision Making: A Critical Review of the Literature," *Birth* 34, 1 (2007): pp. 65–79.
36. National Statistics, "Infant and Perinatal Mortality 2004 and 2005: Health Areas, England and Wales," *Health Statistics Quarterly* (Autumn 2006): pp. 76–81.
37. Statistics Canada, *Births: 2002* (Ottawa: Statistics Canada, 2004), catalogue no. 84F0210XIE.
38. J. V. de Bernabe et al., "Risk Factors for Low Birth Weight: A Review," *European Journal of Obstetrics and Gynecology* 116 (2004): pp. 3–15.
39. S. J. Ventura et al., "Trends and Variations in Smoking During Pregnancy and Low Birth Weight: Evidence From the Birth Certificate, 1990–2000," *Pediatrics* 111, 5 (2003): pp. 1176–1180.
40. X.-K. Chen et al., "Teenage Pregnancy and Adverse Birth Outcomes: A Large Population Based Retrospective Cohort Study," *International Journal of Epidemiology* 36 (2007): pp. 368–373.
41. Statistics Canada, "Canadian Community Health Survey: New Data on Smoking and on Diabetes," *The Daily* (Ottawa: Statistics Canada, June 13, 2006), catalogue no. 11-001-XIE, ISSN 0827-0465.
42. A. McKay, "Trends in Teen Pregnancy in Canada With Comparisons to U.S.A. and England/Wales," *The Canadian Journal of Human Sexuality* 15, 3-4 (2006): pp. 157–161.
43. Q. Yang, S. Greenland and W. D. Flanders, "Associations of Maternal Age- and Parity-Related Factors With Trends in Low-Birthweight Rates: United States, 1980 Through 2000," *American Journal of Public Health* 96, 5 (2006): pp. 856–861.
44. L. A. Shieve et al., "Perinatal Outcome Among Singleton Infants Conceived Through Assisted Reproductive Technology in the United States," *Obstetrics and Gynecology* 103, 6 (2004): pp. 1144–1153.

45. J. Gunby and S. Dava, "Assisted Reproductive Technologies (ART) in Canada: 2003 Results From the Canadian ART Register," *Fertility and Sterility* (February 12, 2007).
46. A. T. Shennan, "Factors in Low Birth Weight," *Canadian Medical Association Journal* 157, 12 (1997): pp. 1737–1738.
47. Statistics Canada, "Canada's Ethnocultural Portrait: The Changing Mosaic," *2001 Census: Analysis Series* (Ottawa: Statistics Canada, 2003), catalogue no. 96F0030XIE2001008.
48. Z. Luo, R. Wilkins and M. S. Kramer, "Disparities in Pregnancy Outcomes According to Marital and Cohabitation Status," *Obstetrics and Gynecology* 103, 6 (2004): pp. 1300–1307.
49. Z. Luo, R. Wilkins and M. S. Kramer, "Effect of Neighbourhood Income and Maternal Education on Birth Outcomes: A Population-Based Study," *Canadian Medical Association Journal* 174, 10 (2006): pp.1415–1421.
50. Z. Luo et al., "Disparities in Birth Outcomes by Neighbourhood Income: Temporal Trends in Rural and Urban Areas, British Columbia," *Epidemiology* 15, 6 (2004): 679–686.
51. M. Bienefeld, G. L. Woodward and S. Ardal, *Underreporting of Live Births in Ontario: 1991–1997* (Toronto: Central East Health Information Partnership, 2001).
52. K. S. Joseph and M. S. Kramer, "Recent Trends in Infant Mortality Rates and Proportions of Low-Birth- Weight Live Births in Canada," *Canadian Medical Association Journal* 157, 5 (1997): pp. 535–541.

Analysis in Brief

Taking health information further

We would appreciate comments and suggestions on this Analysis in Brief (*Giving Birth in Canada: Regional Trends From 2001–2002 to 2005–2006*) in order to make future reports more useful and informative. Please complete this feedback form and send it to the address below by mail or fax.

Canadian Institute for Health Information

Analysis in Brief Feedback

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Instructions

Please place an "X" in the box that best describes how you felt about this report.

There are no right or wrong answers, as we are interested in your opinions. Individual responses will be kept confidential.

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