

Neighbourhood HEALTH PROFILE 2005

A PEEL HEALTH STATUS REPORT

MISSISSAUGA WARD 9



P. Saito,
Mississauga Ward 9 Councillor



 **Region of Peel**
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Public Health

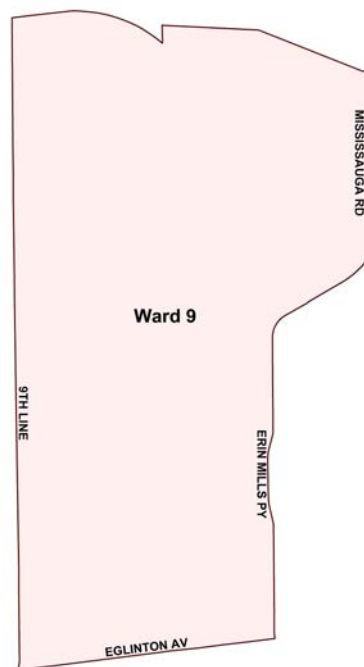
Mississauga, Ward 9

This report provides an overview of the health status of residents of Mississauga Ward 9, including:

- Socio-demographic facts
- Reported births
- Leading causes of death
- Leading causes of hospitalization
- Selected leading causes of injury-related hospitalizations
- Commonly reported communicable diseases

Where appropriate, comparisons are made between this ward and Peel overall. For the purposes of this report, terms such as “significant”, “more likely”, and “less likely” are used only when differences in proportions have been found to be both statistically significant and where a difference of proportions of 5% or more is observed.

This report makes use of a wide variety of data to describe health in Mississauga Ward 9. A number of important data limitations are noted in the Data Sources, Methods and Limitations section at the end of this report.

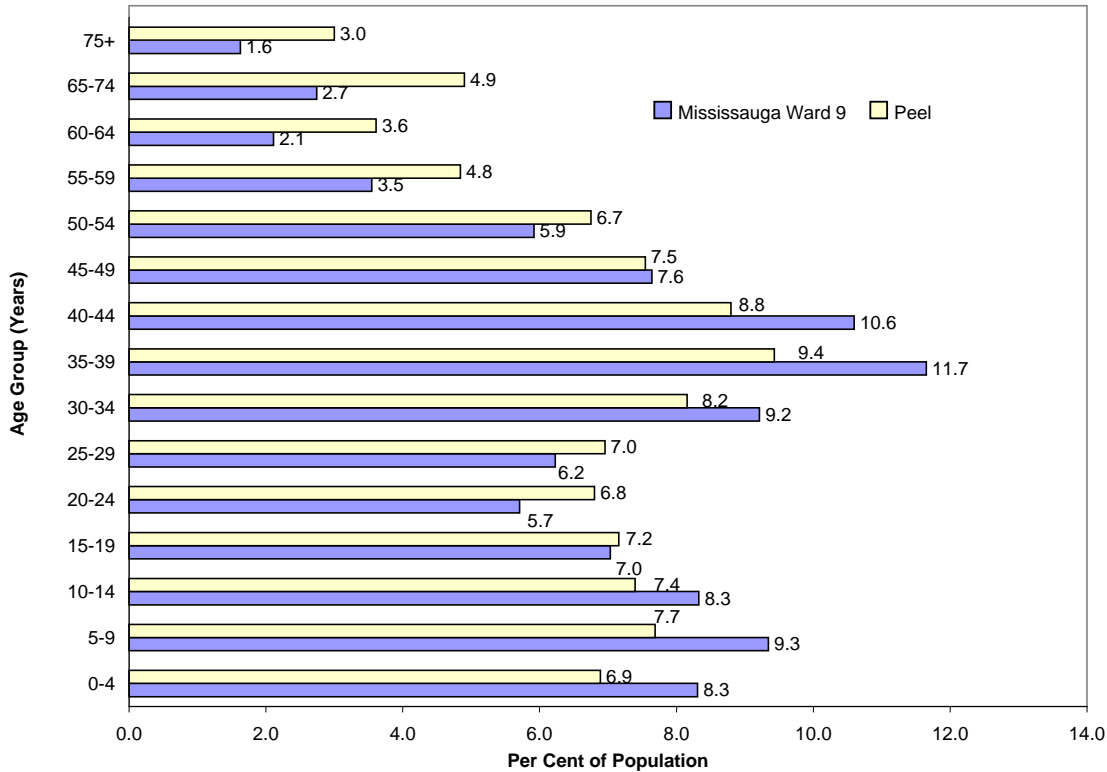


SOCIO-DEMOGRAPHIC FACTS

The Population

According to the 2001 Census, there were 88,275 people living in Mississauga Ward 9 in 2001. This represents about 9% of the population of Peel. Figure 1 shows the population of Mississauga Ward 9, by age group, compared to Peel’s population in 2001. In Ward 9 there were higher proportions of children aged zero to fourteen years and adults aged 30-44 years compared to Peel overall. In contrast, there were lower proportions of adults aged 20-29 years and older adults aged 50 years or more in this ward compared to Peel.

Figure 1: Population by Age Group, Mississauga Ward 9 and Region of Peel, 2001

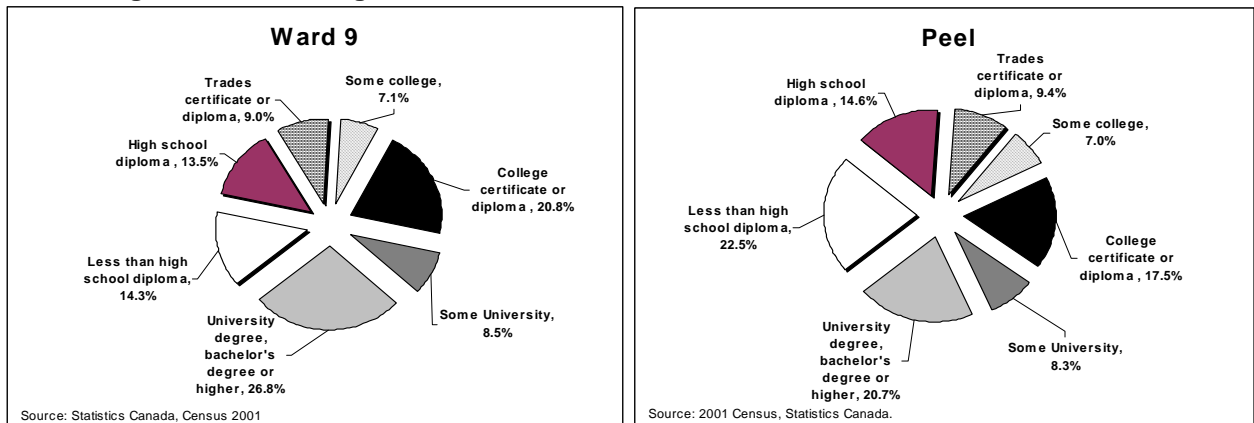


Source: 2001 Census, Statistics Canada.

Highest Level of Schooling Completed

Figure 2 shows the population, aged 20 years and older, in Mississauga Ward 9 by highest level of schooling completed compared to Peel in 2001. Residents of this ward were less likely to report their highest level of education as high school or less (28%) than were Peel residents overall (37%). Ward 9 had higher proportions of residents who attained a university degree, bachelor's or higher (27%) compared to Peel residents in this age group (21%). Ward 9 residents attained similar levels of education for the other categories compared to Peel.

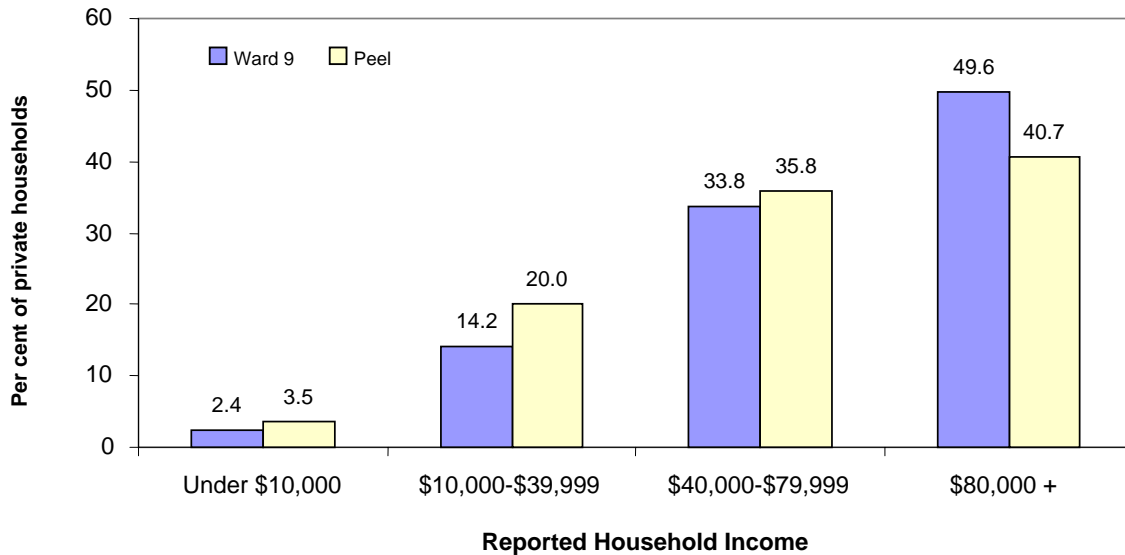
Figure 2: Proportion of Population Aged 20 Years and Older by Highest Level of Schooling Completed, Mississauga Ward 9 and Region of Peel, 2001



Household Income

The distribution of household income for private households in Mississauga Ward 9 compared to Peel in 2000 is shown in Figure 3 for private households. A private household refers to a person or a group of persons (other than foreign residents) who occupy a private dwelling and do not have a usual place of residence elsewhere in Canada. The total income for half of all private households in this ward was \$80,000 or greater. There was a higher proportion of households in the \$80,000 or greater category for Mississauga Ward 9 compared to Peel overall. Correspondingly, there were lower proportions of households with incomes in the \$79,999 or lower categories for this ward than for Peel overall.

Figure 3: Distribution of Household Income in Private Households, Mississauga Ward 9 and Region of Peel, 2000



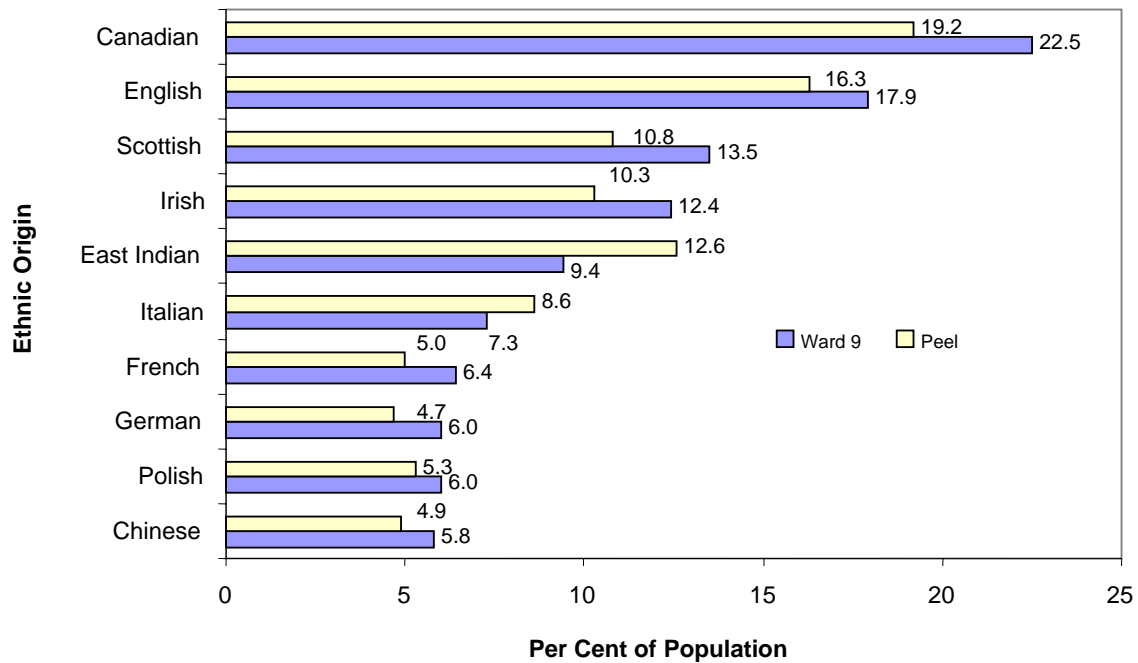
Source: 2001 Census, Statistics Canada.

Cultural Diversity

Ethnic Origin

As in the rest of Peel, residents living in Mississauga Ward 9 belong to a diverse group of ethnic backgrounds. As part of the 2001 Census of Canada, a sample of Canadian residents was asked to identify which ethnic or cultural group(s) their ancestors belonged to. Nine of the top ten ethnic groups in this ward were among the top ten ethnic groups in Peel overall, although the proportions of each within these geographic neighbourhoods differed (Figure 4). Ward 9 had higher proportions of residents of Canadian, English, Scottish and Irish origins than Peel overall. In contrast, a smaller proportion of residents of East Indian origin resided in this ward compared to Peel. Similar proportions of the remaining top 10 ethnic groups resided in this ward compared to Peel.

Figure 4: Proportion of Population by Top Ten Ethnic Origins, Mississauga Ward 9 and Region of Peel, 2001



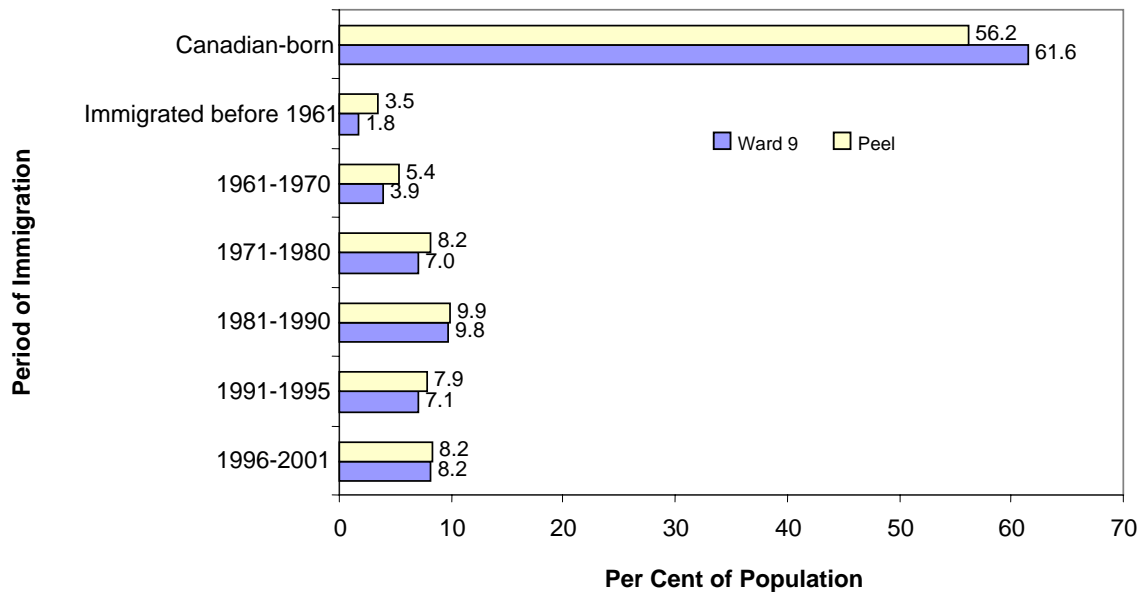
Note: estimates based on aggregation of census tract data
 Source: 2001 Census, Statistics Canada.

NEIGHBOURHOOD HEALTH PROFILE – 2005

Immigration Status and Period of Immigration

In 2001, 62% of residents in Mississauga Ward 9 were Canadian-born, whereas 38% were immigrants to Canada (Figure 5). Ward 9 had a lower immigrant population than Peel overall (38% vs. 44%); however, the ward had a similar proportion of those who immigrated between 1996 and 2001 (8% vs. 8% respectively) as shown in Figure 5.

Figure 5: Population by Immigrant Status and Period of Immigration, Mississauga Ward 9 and Region of Peel, 2001



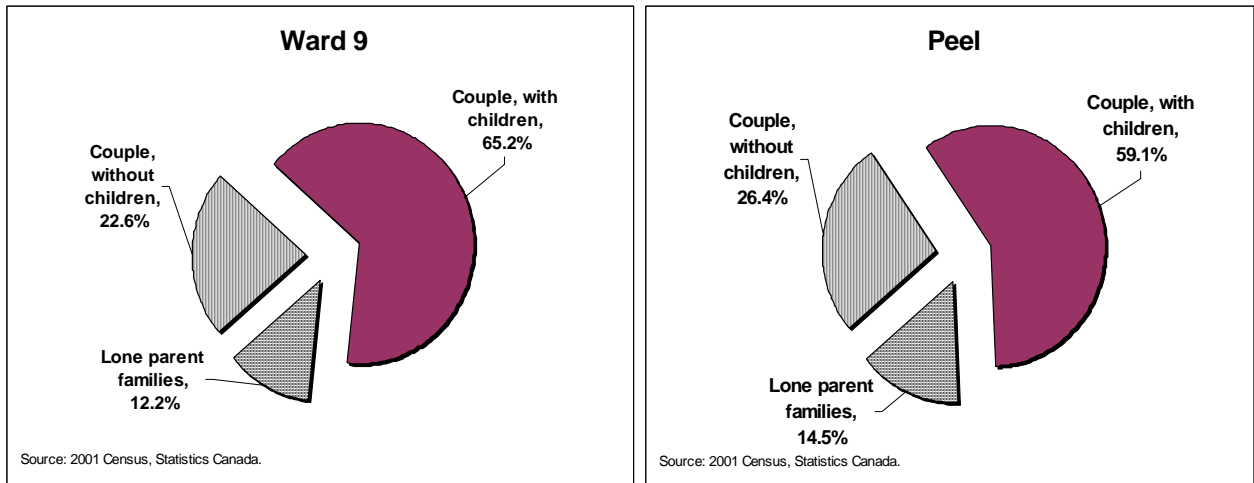
Note: Percentages may not add to 100% due to rounding.
Source: 2001 Census, Statistics Canada.

Families

During the 2001 census year, information was collected about different types of families, one of which was the “census family”. The census family was defined as a married couple (with or without children of either or both spouses), a couple living common-law (with or without children of either or both partners) or a lone parent of any marital status, with at least one child living in the same dwelling. A couple living common-law may be of the opposite or same sex.

Figure 6 shows the types of families living in Ward 9 and in the Region of Peel in 2001. The majority of families in this ward consisted of couples with children (65%) (Figure 6). Couples without children accounted for 23% of families, whereas single parent families made up 12% of families. When examining family types in Ward 9 compared to Peel, this ward had a larger proportion of couples with children (65%) than Peel (59%), and slightly lower proportions of couples without children (23% vs. 26% respectively) and lone parent families (12% vs. 15% respectively).

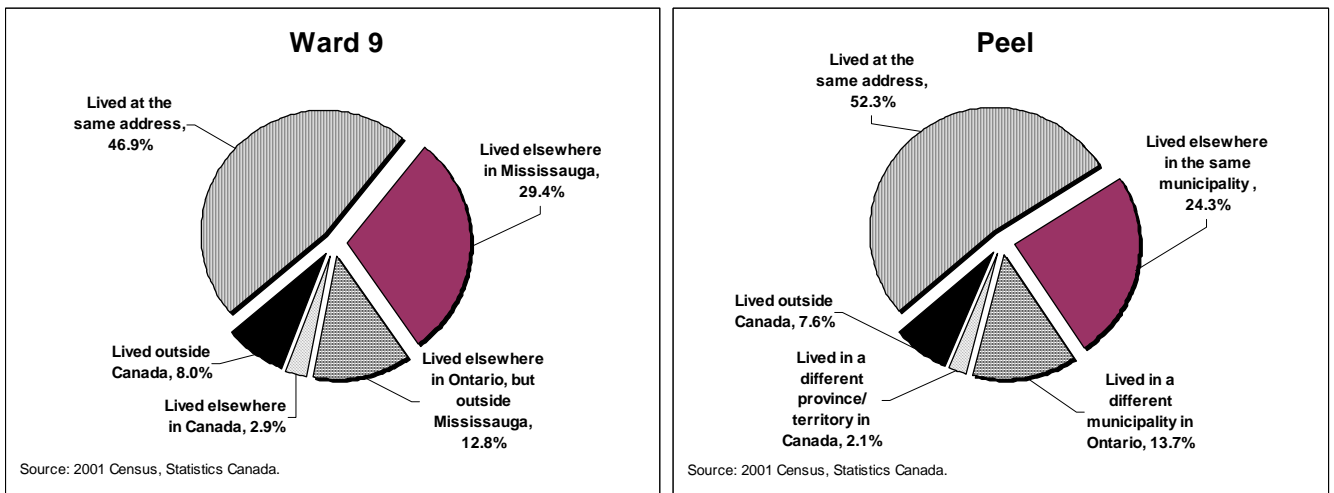
Figure 6: Proportion of Census Families by Family Type, Mississauga Ward 9 and Region of Peel, 2001



Mobility – Where Residents Lived on May 15, 1996

The 2001 Census collected information on where residents lived 'five years ago', that is on May 15, 1996. Forty-seven per cent of residents aged five years and older in Mississauga Ward 9 lived at the same address five years before and 29% lived elsewhere in Mississauga (Figure 7). The remainder of residents lived elsewhere in Ontario but outside of Mississauga (13%), lived elsewhere in Canada (3%), or lived outside of Canada (8%). In contrast, more than half (52%) of Peel residents lived at the same address five years before. Overall, a significantly higher proportion of residents of Ward 9 moved during the past five years compared to Peel residents overall.

Figure 7: Where Residents Lived on May 15, 1996, Total Population Aged Five Years and Older, Mississauga Ward 9 and Region of Peel, 2001

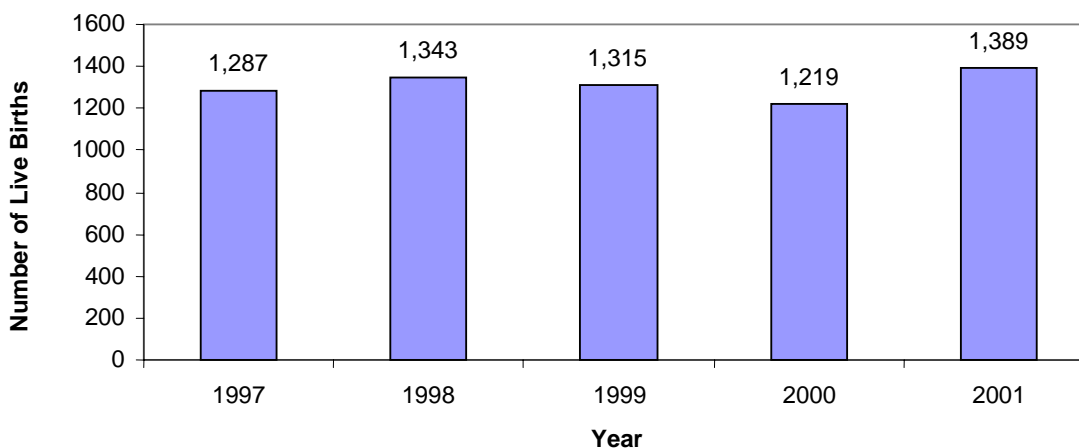


HEALTH FACTS

Births

In 2001, the most recent year for which official data are available, there were approximately 1,389 live births in Mississauga Ward 9 (Figure 8), which represented approximately 10% of the 13,654 live births in the Region of Peel. The number of live births in Ward 9 fluctuated between 1997 and 2001, reaching a low of 1,219 births in 2000 and a high of 1,389 births in 2001. Although a fluctuation in the number of births was observed, it does not necessarily represent a fluctuating trend in birth rates. Any trend in rates would depend not only on the number of births per year, but also on the size of the population for the same time period. Population estimates at the ward-level are not available for 1997 through 2000 and therefore rates cannot be calculated. In Peel overall, the number of live births remained relatively stable between 1997 and 2001, with an average of 13,143 live births per year (data not shown).

Figure 8: Number of Live Births by Year, Mississauga Ward 9, 1997-2001



Source: Ontario Live Birth Database 1997-2001, HELPS (Health Planning System), Public Health Branch, Ontario Ministry of Health and Long-Term Care.

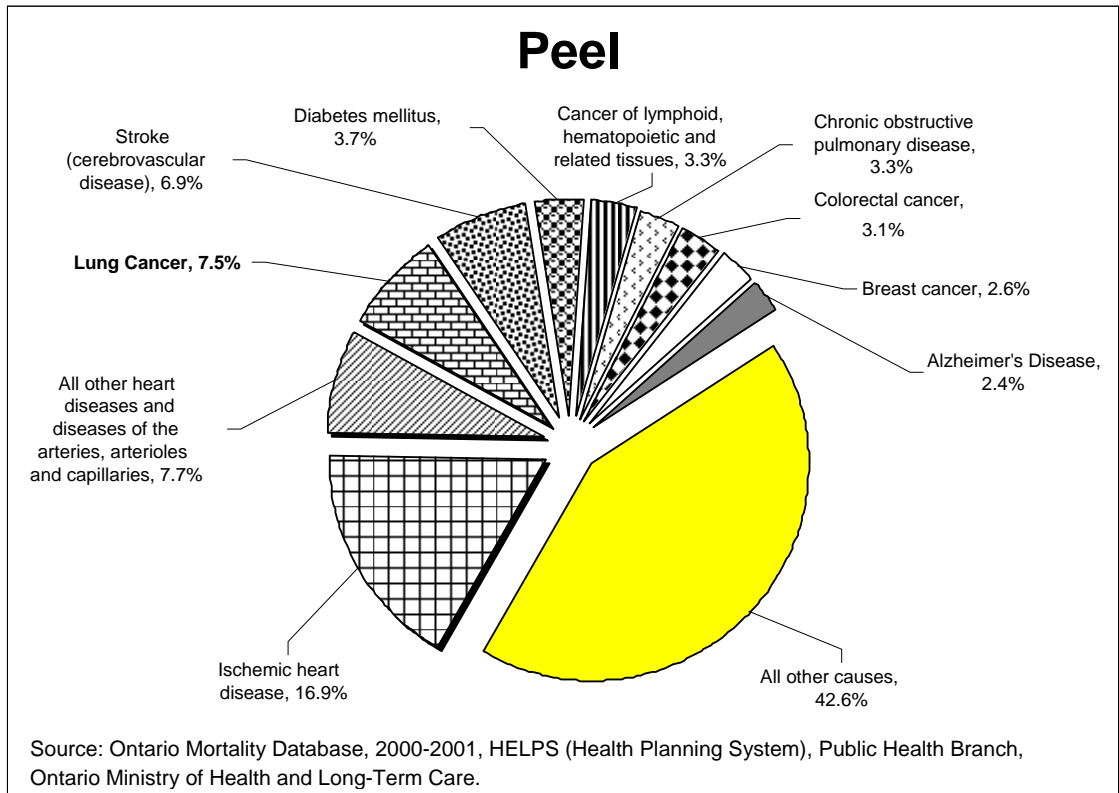
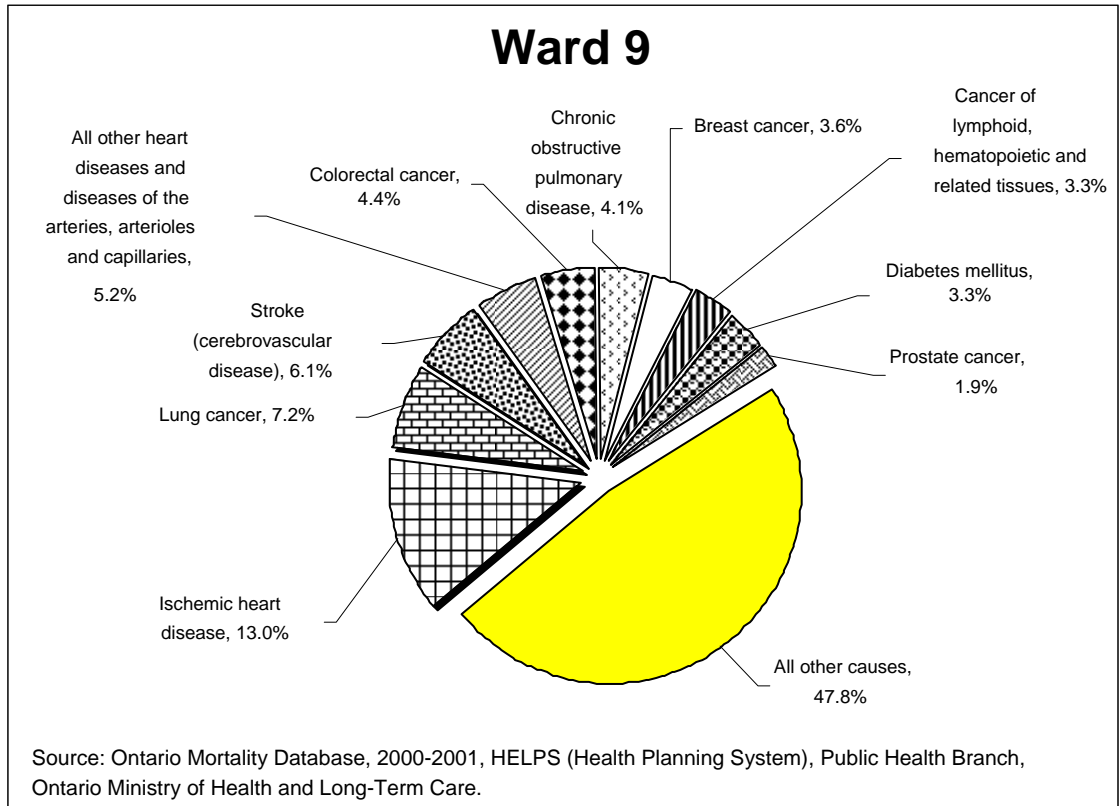
Birth weight is an important predictor of maternal and infant health. Infants born with low birth weight (weight less than 2,500 grams) tend to have an increased risk of dying and experience more developmental and physical health problems than babies born with normal birth weight.^{1,2} The singleton[†] low birth weight rate in Mississauga Ward 9 in 2001 was 3.9 per 100 live births, compared to 4.9 per 100 live births in Peel overall.

Deaths

Between 2000 and 2001, the most common causes of death in Ward 9 were ischemic heart disease, accounting for an estimated 13% of all deaths within the ward; lung cancer (7%); stroke (6%); all other heart diseases and diseases of the arteries, arterioles and capillaries (5%); colorectal cancer (4%); and chronic obstructive lung disease (4%) (Figure 9). There were no significant differences between any of the top causes found in this ward compared with Peel. Please note that caution must be used when comparing these proportions, as higher proportions of deaths due to specific causes do not mean higher rates of deaths. The differences in proportions presented here do not account for differences in size and age distributions between populations.

[†] A singleton is a baby that is not a twin or other multiple birth.

Figure 9: Top Causes of Mortality, Mississauga Ward 9 and Region of Peel, 2000-2001 Combined



Communicable Diseases

The communicable diseases (CD) described herein, are among those that must be reported to the local Medical Officer of Health under the Health Protection and Promotion Act (HPPA). Table 1 depicts the top 10 reportable communicable diseases for Mississauga Ward 9 during 2003. These were similar to the top 10 CD's reported among residents of the Region of Peel (data not shown).

Table 1: Top Ten Reportable Diseases, Mississauga Ward 9, 2003

Reportable Disease	Number of Cases Reported
Chlamydia (sexually transmitted)	125
Influenza (vaccine-preventable)	103
Campylobacteriosis (foodborne)	39
Salmonellosis (foodborne)	29
Hepatitis C (bloodborne)	27
Gonorrhea (sexually transmitted)	26
Giardiasis (waterborne / foodborne)	22
Amebiasis (waterborne / foodborne)	8
Tuberculosis (spread by close personal contact)	8
Encephalitis / Meningitis (spread by close personal contact)	<5

Source: Reportable Disease Information System, Region of Peel Health Department, as of 06/08/2004.

Hospitalizations

Table 2 depicts the top ten causes of hospitalization among females in Mississauga Ward 9 from 1997 to 2001 combined, and compares them to that of the Region of Peel. A significantly higher proportion of females living in this ward were hospitalized for labour, delivery and associated complications than were Peel women overall (Table 2). These differences may be explained by the higher proportion of women in their reproductive years living in this ward compared to Peel.

Table 2: Top 10 Causes of Hospitalization in Females, Mississauga Ward 9 and Region of Peel, 1997-2001 Combined

Cause of Hospitalization	Ward 9 #	Ward 9 %	Peel %
Labour, delivery and associated complications [†]	6,153	30.8	24.9
Complications of pregnancy	1,234	6.2	5.2
Injury and poisoning	662	3.3	4.4
Chronic obstructive lung disease	382	1.9	1.9
Ischemic heart disease	359	1.8	2.9
Benign neoplasms	350	1.7	2.0
Miscarriage, abortion and complications	335	1.7	1.5
All other heart disease and disease of arteries, arterioles and capillaries	312	1.6	2.6
Arthropathies	233	1.2	1.6
Pneumonia and influenza	233	1.2	1.5
Other	9,754	48.8	51.5

[†] indicates a statistically significant difference between proportions for ward and Peel.

Source: Hospital In-Patient Data, 1997-2001, Provincial Health Planning Database (PHPDB), Extracted: January 13, 2004. Health Planning Branch, Ontario Ministry of Health and Long-Term Care.

Table 3 depicts the top ten causes of hospitalization among males in Mississauga Ward 9 from 1997 to 2001 combined, and compares them to those of the Region of Peel. The proportions of hospitalizations for males in Ward 9 are similar to those in Peel.

Table 3: Top 10 Causes of Hospitalization in Males, Mississauga Ward 9 and Region of Peel, 1997-2001 Combined

Cause of Hospitalization	Ward 9 #	Ward 9 %	Peel %
Ischemic heart disease	801	7.0	8.3
Injury and poisoning	771	6.7	7.3
All other heart disease and diseases of arteries, arterioles and capillaries	347	3.0	4.5
Chronic obstructive lung disease	336	2.9	3.2
Pneumonia and influenza	234	2.0	2.3
Arthropathies	199	1.7	1.9
Stroke (cerebrovascular disease)	143	1.2	1.8
Cancer of lymphoid, haematopoietic and related tissue	93	0.8	0.6
Prostate cancer	65	0.6	0.8
Diabetes mellitus	62	0.5	0.8
Other	8,449	73.5	68.4

Source: Hospital In-Patient Data, 1997-2001, Provincial Health Planning Database (PHPDB), Extracted: January 13, 2004. Health Planning Branch, Ontario Ministry of Health and Long-Term Care.

Please note that caution must be used when comparing these proportions, as higher proportions of hospitalizations due to specific causes do not mean higher rates. The differences in proportions presented here do not account for differences in size and age distributions between populations.

Injuries

For the years 1997-2001 combined, injury and poisoning was the second leading cause of hospitalization in Peel residents overall. For this reason, this section of the report focuses on injuries in more detail.

In order to profile injuries of various levels of severity in a population, one must draw upon multiple sources of data. At the ward-level, analyses are limited by the number of sources of data that information can be drawn from due to the level of geography at which injury-related data are recorded. Therefore, injury-related data provided here are based on hospitalizations, and do not represent injuries that are not severe enough to result in hospitalization or injury-deaths.

For the years 1997 to 2001 combined, the leading causes of injury-related hospitalizations in residents of Mississauga Ward 9 included accidental falls, which accounted for an average of 143 hospitalizations per year (Table 4); drugs causing adverse effects (an average of 67 per year); and other accidents* (an average of 40 per year). Over the five-year period, an average of 39 injury-related hospitalizations per year among these residents resulted from motor vehicle traffic crashes, an average of 35 per year from suicide and self-inflicted injury, and an average of nine per year due to accidental poisonings. Although not shown, over the five-year period, similar proportions of residents of this ward were hospitalized due to these top ten causes of injury compared to Peel residents.

*Other accidents include: those caused by being struck by, against or between objects or persons; those involving machinery, cutting or piercing objects, firearms, explosive materials, hot, caustic or corrosive materials, electric currents, or radiation; or those resulting from overexertion and strenuous movements or other environmental factors.

Table 4: Top Ten Causes of Injury-Related Hospitalizations, Mississauga Ward 9, 1997-2001 Combined

Cause of Hospitalization	Average Annual Number
Accidental falls	143
Drugs causing adverse effects	67
Other accidents*	40
Motor vehicle traffic crashes	39
Suicide and self-inflicted injury	35
Accidental poisonings	9
Assault	6
Road and air transport accidents	6
Environmental and natural factors	5
Late effects of accidental injury	<5

***Other accidents include:** those caused by being struck by, against or between objects or persons; those involving machinery, cutting or piercing objects, firearms, explosive materials, hot, caustic or corrosive materials, electric currents, or radiation; or those resulting from overexertion and strenuous movements or other environmental factors.

Source: Hospital In-Patient Data, 1997-2001, Provincial Health Planning Database (PHPDB), Extracted: January 13, 2004. Health Planning Branch, Ontario Ministry of Health and Long-Term Care.

Data Sources, Methods and Limitations

Data sources used in this report and limitations of the data are described below.

For the purposes of this report, terms such as “significant”, “more likely”, and “less likely” are used only when differences in proportions have been found to be both statistically significant and where a difference of proportions of 5% or more is observed.

Census Data

2001 Census data used in this report were obtained from Semi-Custom Profiles from Statistics Canada containing ward-level data. Ethnicity data were based on estimates calculated using aggregation of data from the census tract level to the ward level of geography. Since the majority of wards do not align with census tracts (the boundaries for each ward were each individually compared to census tracts to assist with making estimates), ethnicity data are estimates.

Reportable Diseases

Since 1990, reportable diseases have been monitored through a public health surveillance system called the Reportable Disease Information System (RDIS). Data for Peel for 2003 were obtained from the Region of Peel Health Department and downloaded on June 8, 2004. It is noted that data for Peel may change in future years, especially for diseases such as tuberculosis (TB) which can take longer to be reported to the Health Department.

Hospitalizations

Hospitalization data in this report were collected by the Canadian Institute for Health Information (CIHI). Data for Peel from 1997 to 2001 were obtained through the Provincial Health Planning Database (PHPDB) initiative at the Ontario Ministry of Health and Long-Term Care. CIHI data were coded based on the International Classification of Diseases, 9th Revision (ICD-9) system of classifying causes of death and hospital stay. Injury-related hospitalizations included in this report are based on external causes of hospitalization for all admissions.

Vital Statistics

Mortality data in this report were collected by the Office of the Registrar General (of Ontario). Data for Peel from 2000 to 2001 were obtained through the Health Planning System (HELPS) initiative of the Ontario Ministry of Health and Long-Term Care. Death data for the year 2000 were coded based on the International Classification of Diseases, 9th Revision (ICD-9) system of classifying causes of death and hospital stay, whereas 2001 data were based on the ICD-10 system. Birth Data were obtained from the Live Birth data file also distributed to Peel Health through the HELPS. This report was prepared using 1997 to 2001 live birth data. Population estimates were not available for 1997 through 2000 by Ward and therefore live birth rates for each year cannot be calculated.

Other Limitations

The calculations for health occurrences for Ward 9 exclude the area north of Highway 401 between Winston Churchill Boulevard and Mississauga Road. In addition, the area east of Eastridge Road, bordered by Erin Mills Parkway, Mississauga Road, Highway 401 and Derry Road is also excluded. As this area is largely non-residential, it is not expected to influence the results.

The lowest level of geography for which health-related data were available was the Postal Code level. Using the Postal Code Conversion File, data were converted to the census tract (CT) level and aggregated for analyses. However, a number of databases had a substantive proportion of missing postal codes or postal codes that converted to invalid census tracts. Invalid postal codes for mortality data amounted to 15% in 2000 and 2001. Invalid postal codes for birth data ranged from 5.3 to 6.2% depending on the year (1997-2001).

References

1. Chen J, Millar WJ. Birth outcome, the social environment and child health. *Health Rep* 1999; 10(4): 57-67.
2. Health Canada. *Measuring Up: A Health Surveillance Update on Canadian Children and Youth—Infant Mortality* [monograph on the Internet]. 1999 [cited 2004 Oct 12]. Available from: http://www.hc-sc.gc.ca/hpb/lcdc/brch/measuring/mu_c_e.html

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