

# **Alberta Health**

## **Primary Health Care - Community Profiles**

### Community Profile: Sundre Health Data and Summary

Primary Health Care Division  
February 2013

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**Note:**

*Qualifiers such as ‘higher than’, ‘much lower than’, ‘similar to’ etc. are used throughout the community profile to compare LGA indicator values to the provincial average. Note that the qualifiers ‘similar’ and ‘comparable’ are chosen to describe situations in which the LGA indicator value is either identical or very close to the provincial average. For further details on these qualifiers please refer to Appendix A.*

## INTRODUCTION

Primary Health Care provides an entry point into the health care system and links individuals to medical services and social and community supports. The Government of Alberta is currently working to improve primary health care within the province. The government's goal is to have a 'health home' for all Albertans, where they can receive coordinated and comprehensive primary health care. Primary health care services in Alberta are delivered in a variety of settings and by a range of providers. Current primary health care models in Alberta include: primary care networks, family care clinics, stand-alone physician clinics, community health centres, urgent-care centres, community ambulatory care centres, medi-centres, and university health centres.

To assist with primary health care planning, Alberta Health has developed a series of reports to provide a broad range of demographic, socio-economic and population health statistics considered relevant to primary health care for communities across the province. Alberta Health Services divides the province into five large health service Zones, and these Zones are subdivided into smaller geographic areas called local geographic areas (LGAs). The Alberta Health "Community Profile" reports provide information at the Zone and LGA level for each of the 132 LGAs in Alberta.

The Community Profiles (Profiles) are intended to highlight areas of need and provide relevant information to support the consistent and sustainable planning of primary health services. Each Profile offers an overview of the current health status of residents in the LGA, indicators of the area's current and future health needs, and evidence as to which quality services are needed on a timely and efficient basis to address the area's needs.

Each report includes sections that present Zone and LGA level information. In addition, the Profile includes Appendices containing sources of additional information about the community (e.g. Health Link Alberta and community services).

The Zone level section opens with a Zone map that puts the specific LGA into context and includes health-related statistics at the Zone level (the highest geographic breakdown next to the full provincial view). Some of the Zone level health indicators are unique to this section and are not currently available at the LGA level.

The LGA section of the Profile is divided into a number of sub-sections and is the core component of each report. The population size of LGA varies substantially from very small in rural areas to large in metropolitan centers. A compendium of health related information on demographics, prevalence rates, emergency visits, maternal and child health and more, is included in this section. In addition, information on indicators of need (relating to utilization, health population needs and social determinants of health) is also provided.

Furthermore, each Community Profile contains information on access statistics, offering some additional insight into existing needs that are not being met, as well as the utilization of non-local facilities by LGA residents. A map of selected health services available in each LGA, together with a listing of these locations, is also included in each report.

While the current Profile contains information at both the Zone and LGA level, information could be updated or added to the profile if information is provided by the community. For more information contact [primaryhealthcare@gov.ab.ca](mailto:primaryhealthcare@gov.ab.ca)

## COMMUNITY PROFILE SUMMARY

### Local Geographic Area: Sundre

The community profile contains a large number of demographic, socio-economic and health related indicators intended to provide a better understanding of the community's current and future health needs. The summary that follows provides a brief overview of some of the key indicators for the local geographic area (LGA), Sundre. For a more in depth look at the data, please refer to the various sections of the report.

#### POPULATION HEALTH INDICATORS

- Health status indicators are available solely at the zone level. The percentage of obese people in the Central Zone (which includes Sundre) was higher than the provincial percentage in 2011 (25.7% Central Zone vs. 19.6% AB). (Table 1.2)
- The Central Zone reported a similar proportion of inactive people compared to the provincial proportion during the same year (43.9% Central Zone vs. 43.8% AB). (Table 1.2)

#### DEMOGRAPHICS

- Sundre's population increased by 26.5% between 1994 and 2012 (compared to a 44.3% increase for Alberta) and currently stands at 6,919 people. (Figure 2.2)
- The largest age group in the LGA, in 2012, was 35-64 year olds who accounted for 42.2% of the population compared to 40.6% for Alberta. (Figure 2.1)
- Children 17 and under made up 20.3% of the LGA's population compared to 22.5% for Alberta, while individuals 65 and older accounted for 18.3% of the population in the LGA and 11.1% in Alberta. (Figure 2.1)

#### SOCIO - ECONOMIC INDICATORS

- Sundre had a lower proportion of First Nations people compared to Alberta (1.0% vs. 3.8% AB). (Table 3.1)
- The percentage of female lone-parent families was lower than the provincial percentage (7.8% vs. 11.3% AB). (Table 3.2)
- A similar proportion of families with an income below the low income cut-off point was reported in the LGA compared to Alberta (6.1% vs. 6.4% AB). (Table 3.2)
- The most common non-official languages spoken at home in the LGA were: Spanish. (Table 3.2)

#### CHRONIC DISEASE PREVALENCE

- In 2010, the disease with the highest prevalence rate (per 100 population) in Sundre was hypertension. The rate associated with this disease was 0.9 times lower than the provincial rate (13.1 vs. 14.2 AB). (Figure 4.2)

## MATERNAL HEALTH

- In 2008/2009 to 2010/2011, Sundre's birth rate per 1,000 women was lower than the provincial rate (19.7 vs. 27.4 AB) and the teen birth rate per 1,000 women was similar to Alberta's teen rate (20.3 vs. 18.9 AB). (Table 5.1)

## SEXUALLY TRANSMITTED INFECTIONS

- The highest sexually transmitted infections (STI) rate per 100,000 population in the LGA, in 2009 - 2012, was reported for chlamydia. STI rates in the LGA were higher than the provincial rates for none of the top 4 Alberta STIs, where comparisons could be made. (Table 6.1)

## MORTALITY

- The mortality rate (per 100,000 population) due to all causes was similar in the LGA compared to the province (540.8 vs. 519.2 AB) and the most frequent cause of death reported between 2001 and 2010 was diseases of the circulatory system. (Figures 7.2 and 7.3)

## EMERGENCY AND INPATIENT SERVICE UTILIZATION

- Semi and non-urgent emergency visits accounted for 66.4% of all emergency visits in 2011/2012. (Table 8.1)
- Acute Upper Respiratory Infections were the most common reason for emergency visits (among select conditions) in 2010, and had a higher rate (per 100,000 population) compared to the provincial rate (5,332.5 vs. 3,069.2 AB). (Figure 8.4)
- Ischemic heart diseases, pneumonia, and mental & behavioural disorders due to psychoactive substance use were the top three main reasons for inpatient discharges (among selected conditions) in 2010, and inpatient separation rates were higher than the provincial rates for 5 of 7 diagnoses. (Figure 9.2)

## MENTAL AND BEHAVIOURAL DISORDERS

- Mental and behavioural disorders are particularly important from a population health perspective. In 2010, Sundre's ED visit rate for mental and behavioural disorders was similar to the provincial ED visit rate per 100,000 population (416.2 vs. 465.8 AB). (Figure 8.4)
- The inpatient discharge rate associated with mental and behavioural disorders was higher than Alberta's discharge rate per 100,000 population (187.4 vs. 107.2 AB). (Figure 9.2)
- During 2001 to 2010 mental and behavioural disorders accounted for 2.3% of all deaths in the LGA. (Figure 7.3) Note that deaths due to the top 8 disease categories are displayed in Figure 7.3, while the remaining disease categories are grouped into the generic 'Other'.



## PRIMARY HEALTH CARE INDICATORS OF COMMUNITY PRIMARY CARE NEED

During a mapping project conducted by Alberta Health Services in 2012, 13 indicators relating to primary health care needs were developed for each local geographic area. Some of these indicators relate to primary care utilization and availability of primary care services, while others refer to health conditions or health status such as incidence and prevalence of diseases. One additional indicator included, life expectancy at birth, was seen as a strong determinant of health status. Stratification by geographic peer groups (metro, metro moderate, urban, rural, rural remote) was applied to some of these indicators to account for substantially different rates across groups. The following indicators have been highlighted for this LGA:

- Sundre's separation rate for ambulatory care sensitive conditions (per 100,000 population) was similar to the corresponding rural provincial rate (730.3 vs. 708.8 AB rural). (Table 10.1)
- The age-standardized rate for people with three or more chronic diseases per 100 population was similar in Sundre compared to the province (2.2 vs. 2.2 AB). (Table 10.1)
- The dollar gap between actual and predicted community and primary care per capita billings during 2006/2007 and 2008/2009 was \$-5.18 in Sundre compared to the \$-2.92 rural provincial average. (Table 10.1)
- Residents of Sundre had a life expectancy at birth of 79.9 years compared to 80.5 years for Alberta. (Table 10.1)

## ACCESS TO HEALTH CARE SERVICES

- Sundre residents received ambulatory care services at facilities located outside the LGA. These visits made up 47.8% (or 7,863 visits) of all ambulatory care visits and most such visits (i.e. 29.8% of all external visits) were to the Red Deer Regional Hospital Centre in Red Deer (LGA of Red Deer - SW). (Tables 11.1 and 11.2)
- Inpatient separations outside the LGA made up 56.5% (or 542) of all inpatient separations for Sundre residents and most of them (i.e. 41.1% of all external inpatient separations) occurred at the Red Deer Regional Hospital Centre in Red Deer (LGA of Red Deer - SW). (Tables 11.1 and 11.2)

## Zone Level Information

*This section contains information presented at the highest geographic breakdown level before rolling up to a full provincial view. The map of Alberta has been partitioned into five geographic zones (Calgary Zone, Central Zone, Edmonton Zone, North Zone, and South Zone), representing the health zones within Alberta Health Services. A variety of health indicators are unique to this section and are only captured at this level of geography due to either sampling and variability errors, or unavailability of data at the level of local geographical areas.*



## Alberta Central Zone

### POPULATION HEALTH INDICATORS

The table below shows the zone-level population distribution compared to the province, by age group and gender, for the most recent fiscal year available. Children under the age of one were defined as infants, while the pediatric age group consists of all minors excluding infants. People with no age information available were categorized as unknown.

**TABLE 1.1** Zone versus Alberta Population Covered<sup>1</sup>, as at March 31, 2012

	Central Zone			Alberta <sup>2</sup>		
	Population					
	Female	Male	Total	Female	Male	Total
	231,066	232,487	463,553	1,944,849	1,964,616	3,909,465
Percentage Distribution of Population by Age Groups						
Age Group	Female	Male	Total	Female	Male	Total
Infants: Under 1	0.6%	0.7%	1.3%	0.6%	0.7%	1.3%
Pediatric: 1-17	10.8%	11.3%	22.0%	10.3%	10.9%	21.2%
18-34	11.9%	12.2%	24.0%	12.8%	12.9%	25.8%
35-64	19.5%	19.8%	39.3%	20.0%	20.7%	40.6%
65-79	4.9%	4.7%	9.7%	4.2%	3.9%	8.1%
80 & Older	2.2%	1.5%	3.7%	1.8%	1.2%	3.0%
Unknown	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

In 2012, the largest age group was 35-64 year olds, accounting for 39.3% of the overall population in the Central Zone and 40.6% of the population in Alberta. Children 17 and under comprised 23.3% of Central Zone's overall population, compared to 22.5% for Alberta. In addition, residents 65 and older accounted for 13.4% of Central Zone's overall population, 2.3 percentage points higher than the corresponding provincial proportion.

The following table shows zone-level health status indicators compared to the province for the two most recent fiscal years available.

**TABLE 1.2** Health Status Indicators for Zone versus Alberta Residents, 2010 and 2011

		Central Zone			Alberta		
		Body Mass Index (BMI) <sup>3</sup>					
Category	Year	Female	Male	Total	Female	Male	Total
Under Weight	2010	2.5%	0.4%	1.4%	3.9%	0.5%	2.1%
	2011	4.0%	0.3%	2.1%	3.7%	0.8%	2.1%
Normal Weight	2010	54.9%	34.5%	44.0%	54.9%	38.6%	46.2%
	2011	47.5%	32.1%	39.5%	56.1%	35.4%	45.1%
Over Weight	2010	26.1%	42.0%	34.5%	24.5%	39.8%	32.6%
	2011	22.8%	41.9%	32.7%	23.9%	41.4%	33.2%
Obese	2010	16.5%	23.1%	20.0%	16.8%	21.1%	19.1%
	2011	25.7%	25.7%	25.7%	16.3%	22.4%	19.6%

**TABLE 1.2** Health Status Indicators for Zone versus Alberta Residents, 2010 and 2011 (continued)

		Central Zone			Alberta		
Physical Activity <sup>3</sup>							
Category	Year	Female	Male	Total	Female	Male	Total
Active or moderately active	2010	53.3%	51.1%	52.2%	54.3%	57.8%	56.1%
	2011	58.9%	53.5%	56.1%	55.5%	57.0%	56.2%
Inactive	2010	46.7%	48.9%	47.8%	45.7%	42.2%	43.9%
	2011	41.1%	46.5%	43.9%	44.5%	43.0%	43.8%
Smoking <sup>3</sup>							
Daily smokers	2010	21.2%	22.7%	22.0%	13.9%	19.8%	16.9%
	2011	18.5%	22.4%	20.5%	14.6%	18.2%	16.5%
Never/former/occasional smokers	2010	78.8%	77.3%	78.0%	86.1%	80.2%	83.1%
	2011	81.5%	77.6%	79.5%	85.4%	81.8%	83.5%
Self-Perceived Mental Health <sup>3</sup>							
Excellent or Very Good	2010	70.1%	75.9%	73.1%	73.5%	73.5%	73.5%
	2011	73.8%	68.8%	71.3%	73.8%	75.1%	74.5%
Poor Fair or Good	2010	29.9%	24.1%	26.9%	26.5%	26.5%	26.5%
	2011	26.2%	31.2%	28.7%	26.2%	24.9%	25.5%

The percentage of obese people in the Central Zone in 2011 was higher than the provincial percentage (25.7% vs. 19.6% AB) and there was a similar proportion of inactive people compared to Alberta. In addition, a higher percentage of daily smokers was reported at the zone level compared to the province in 2011 (20.5% vs. 16.5% AB) and a lower proportion considered themselves as having excellent or very good mental health (71.3% vs. 74.5% AB).

The table below reports the infant mortality rates per 1,000 live births for the zone and the province, for the most recent fiscal years available.

**TABLE 1.3** Zone versus Alberta Infant Mortality Rates (per 1,000 live births)  
Fiscal Years 2008/2009 to 2010/2011

	Central Zone	Alberta
Infant Mortality Rate (per 1,000 births) <sup>3</sup>		
2008/2009	5.1	6.0
2009/2010	8.6	6.3
2010/2011	6.0	6.2

The infant mortality rates in the Central Zone varied between 5.1 per 1,000 births in 2008/2009 and 8.6 per 1,000 births in 2009/2010. Compared to Alberta, infant mortality rates in the Central Zone were higher for 1 of the 3 fiscal years.

**Sources:**

Canadian Community Health Survey Provincial Share Files  
Alberta Health Care Insurance Plan (AHCIP) Annual Population Registry Files, Alberta Health  
Postal Code Translation File, Alberta Health  
Alberta Vital Statistics Births and Deaths Files

**Notes:** <sup>1</sup> Population covered represents number of people covered under the Alberta Health Care Insurance Plan (AHCIP)

<sup>2</sup> Alberta population figure was calculated based on valid Alberta postal codes.

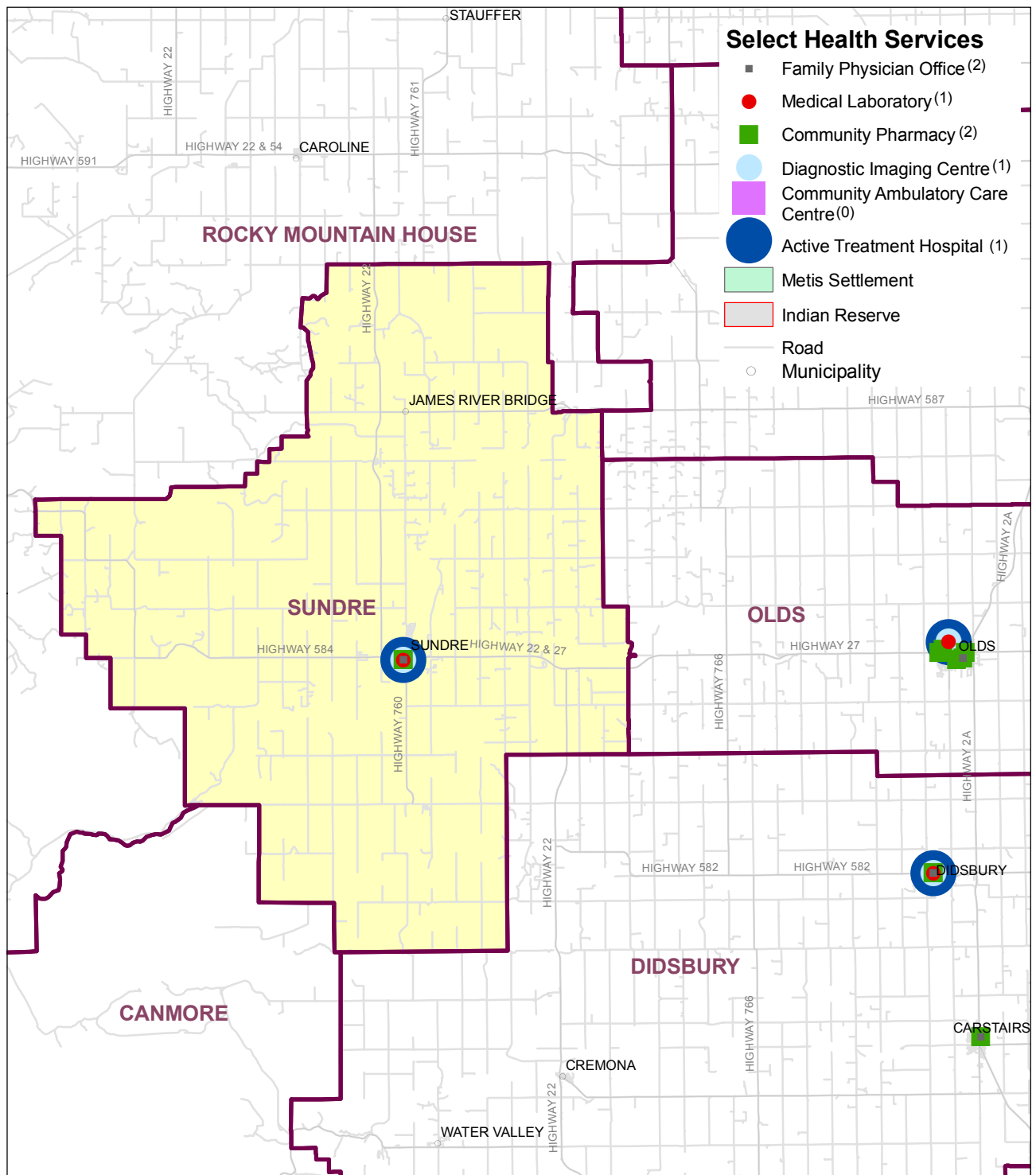
<sup>3</sup> See Appendix A for definition.

## Local Geographic Area Level Information

*This section contains information presented at the level of the local geographic area and is more granular than the information at the zone level. Local geographic area refers to 132 geographic areas created by Alberta Health (AH) and Alberta Health Services (AHS) based on census boundaries. Census sub-divisions and dissemination areas were used whenever possible to achieve the closest match to zone boundaries. The population of these areas varied from very small in rural areas to large in metropolitan centers.*

## Map of Selected Health Services in Local Geographic Area of Sundre

Population (2012): 6,919



Prepared by Information and Analysis Branch, Alberta Health

## Local Geographic Area: Sundre

### DEMOGRAPHICS

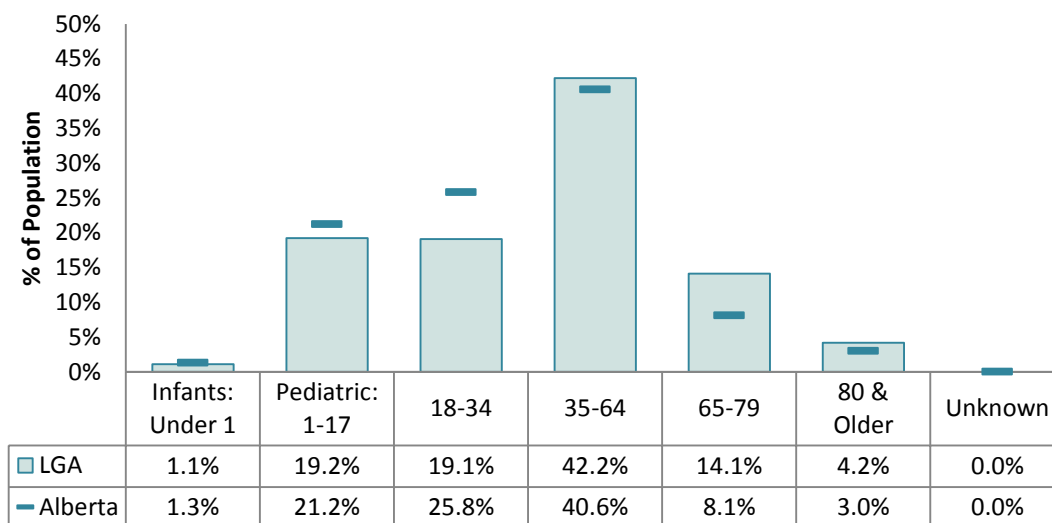
The table below shows the population distribution of the local geographic area broken down by age group and gender, for the most recent fiscal year available. Specific age groups have been identified. Children under the age of one were defined as infants, while pediatric age group includes all minors excluding infants. People with no age information available were categorized as unknown.

**TABLE 2.1** Distribution of Population Covered<sup>1</sup> by Age and Gender  
As at March 31, 2012

Local Geographic Area Population			
Age Group	Female	Male	Total
Infants: Under 1	36	42	78
Pediatric: 1-17	620	710	1,330
18-34	634	689	1,323
35-64	1,457	1,462	2,919
65-79	470	508	978
80 & Older	173	118	291
Unknown	0	0	0
<b>Total</b>	<b>3,390</b>	<b>3,529</b>	<b>6,919</b>

The following figure profiles the age group distribution of population for both the local geographic area and Alberta, for the most recent fiscal year available.

**FIGURE 2.1** Percentage Distribution of Local Geographic Area (LGA) versus Alberta Population  
By Age Groups as at March 31, 2012

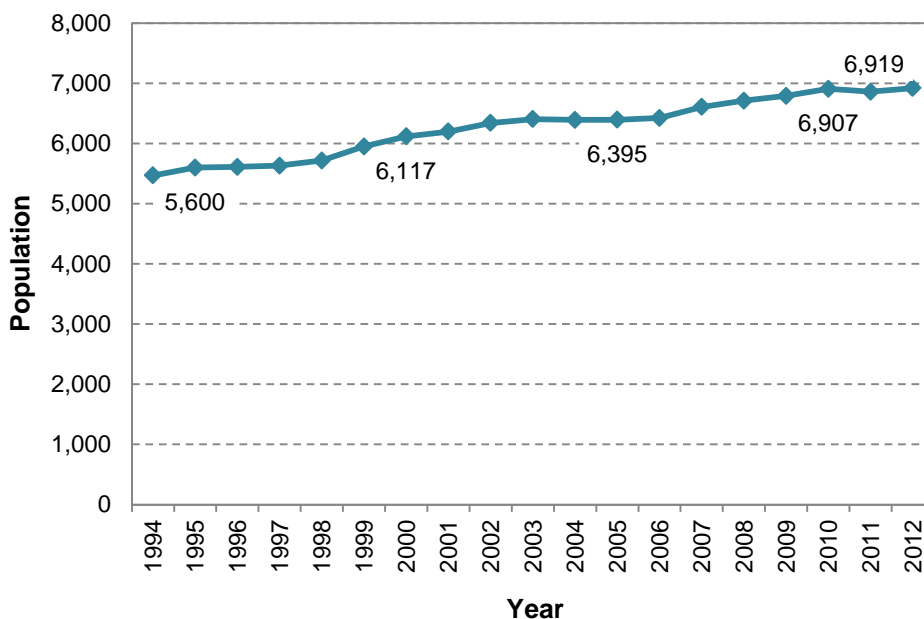




In 2012, the largest age group was 35-64 year olds, accounting for 42.2% of the overall population. Children 17 and under comprised 20.3% of Sundre's overall population, compared to 22.5% for Alberta. In addition, residents 65 and older accounted for 18.3% of Sundre's overall population, 7.2 percentage points higher than the corresponding provincial proportion.

The population counts for each year between 1994 and the most recent fiscal year are provided in the figure below.

**FIGURE 2.2** Local Geographic Area Population Covered as at End of Fiscal Years 1994 - 2012



The population of Sundre increased by 26.5% between 1994 and 2012. A low of 5,470 individuals was reported in 1994 and a peak of 6,919 people was reported in 2012.

**Sources:**

*Alberta Health Care Insurance Plan (AHCIP) Annual Population Registry File, Alberta Health  
 Postal Code Translation File, Alberta Health*

**Notes:**

<sup>1</sup> Population covered represents number of people covered under the Alberta Health Care Insurance Plan (AHCIP)

## Local Geographic Area: Sundre

### SOCIO-ECONOMIC INDICATORS

The following two tables highlight a number of indicators relating to social determinants of health, such as family income, housing and educational attainment. Values for the local geographic area and Alberta are listed as proportions, raw numbers, or dollar amounts, depending on the indicator.

**TABLE 3.1** Population Percentage of First Nations with Treaty Status<sup>1</sup> as at March 31, 2006

First Nations with Treaty Status Population		
	Sundre	Alberta
Percent of Population that is First Nations with Treaty Status	1.0%	3.8%

**Sources:** Alberta Health Care Insurance Plan (AHCIP) Annual Population Registry Files, Alberta Health

**TABLE 3.2** Socio-Economic Indicators<sup>2</sup> for Local Geographic Area versus Alberta Residents, 2006

Family Composition		
	Sundre	Alberta
Percent (Number of) Male Lone-Parent Families	0.0% (0)	3.1% (27,710)
Percent (Number of) Female Lone-Parent Families	7.8% (25)	11.3% (102,555)
Percent (Number of) 65 Years of Age and Older Who Live Alone	12.9% (20)	27.2% (88,410)
Percent (Number of) Persons not in Census Family <sup>1</sup>	13.9% (140)	16.2% (531,785)
Percent (Number of) Census Family Persons	85.2% (855)	81.9% (2,696,285)
Average Number of Persons per Census Family	2.7	3.0
Family Income		
	Sundre	Alberta
Percent (Number of) of Families with Income Below LICO <sup>3</sup>	6.1% (20)	6.4% (56,937)
Percent (Number) of Families with Income Greater Than \$100,000/yr	23.9% (80)	33.1% (297,680)
Average Census Family Income	\$72,359	\$98,240
Housing		
	Sundre	Alberta
Percent Living in Owned Dwellings	80.5%	73.1%
Percent Where Greater Than 30% of Income Is Spent on Housing for Homeowners	14.5%	16.6%
Average Value of Dwelling	\$254,931	\$293,811
Percent of Homeowners Who Have Homes in Need of Major Repairs	11.1%	6.7%
Percent Living in Rented Dwellings	17.1%	26.3%
Percent Where Greater Than 30% of Income Is Spent on Housing for Renters	30.8%	37.1%
Percent Living in Band Housing <sup>4</sup>	0.0%	0.6%

Compared to Alberta, Sundre had a lower proportion of First Nations people (1.0% vs. 3.8% AB). The proportion of female lone-parent families was lower than the provincial proportion (7.8% vs. 11.3% AB). In addition, the proportion of male lone-parent families in Sundre was much lower than the provincial proportion (0.0% vs. 3.1% AB).

Furthermore, a similar percentage of families had an income below the low income cut-off point (as defined by Statistics Canada) compared to the province (6.1% vs. 6.4% AB). Compared to Alberta, the percentage of people who spent 30% or more of their income on housing related expenses was 2.1 percentage points lower in Sundre. In addition, a higher proportion of people in Sundre lived in dwellings they owned (80.5% vs. 73.1% AB).

**TABLE 3.2** Socio-Economic Indicators<sup>2</sup> for LGA versus Alberta Residents, 2006 (continued)

Mobility		
	Sundre	Alberta
Percent who lived at the Same Address One Year Ago	86.4%	81.1%
Percent who lived at the Same Address Five Years Ago	72.1%	52.2%
Language		
	Sundre	Alberta
Percent Who Do Not Speak English or French	0.0%	1.2%
Percent of Households Where a Non-Official Language Is Spoken at Home	1.0%	9.1%
Top Five Non-Official Languages Spoken at Home <sup>5</sup>	Spanish	Chinese (n.o.s.), German, Panjabi (Punjabi), Cantonese, Spanish
Immigration		
	Sundre	Alberta
Total Number of Immigrants	70	527,030
Percent of Immigrants Who Arrived in the Last Five Years	0.0%	3.2%
Top Five Places of Birth for Recent Immigrants <sup>6</sup>	N/A	Eastern Asia, Southern Asia, Southeast Asia, West Central Asia and the Middle East, Eastern Europe
Educational Attainment		
	Sundre	Alberta
Percent with No High School Graduation Certificate	12.8%	15.4%
Percent with High School Graduation Certificate	37.6%	24.1%
Percent with Apprenticeship, Trades Certificate or Diploma	18.8%	12.4%
Percent with College, Other Non-University Certificate, or Diploma	23.1%	21.5%
Percent with University Certificate, Diploma or Degree	6.8%	26.6%

**TABLE 3.2** Socio-Economic Indicators<sup>2</sup> for LGA versus Alberta Residents, 2006 (continued)

Household and Dwelling Characteristics		
	Sundre	Alberta
Percent Persons in Private Households <sup>1</sup>	98.6%	98.1%
Total Number of Households by Household Type	405	1,256,195
Census Family Households	79.0%	72.0%
One-Family-Only Households	75.3%	68.4%
Two-or-More-Family Households	2.5%	1.8%
Other Family Households	21.0%	29.9%
Total Number of Dwellings by Structural Type	405	1,256,190
Single-Detached House	95.1%	63.3%
Moveable Dwelling	0.0%	3.0%
Other Dwelling	1.2%	33.7%

Sundre had a lower proportion of non-English and non-French speaking people compared to Alberta (0.0% vs. 1.2% AB). Also, a lower proportion of immigrants arrived in the last five years in Sundre compared to the province (0.0% vs. 3.2% AB). Furthermore, Sundre reported a lower proportion of people with university certificates, diplomas or degrees (6.8% vs. 26.6% AB).

**Sources:**

*Federal Census (2006), Statistics Canada*  
*Postal Code Conversion File, Statistics Canada*  
*Postal Code Translation File, Alberta Health*  
*Alberta Health Care Insurance Plan (AHCIP) Annual Population Registry Files, Alberta Health (2006)*

**Notes:**

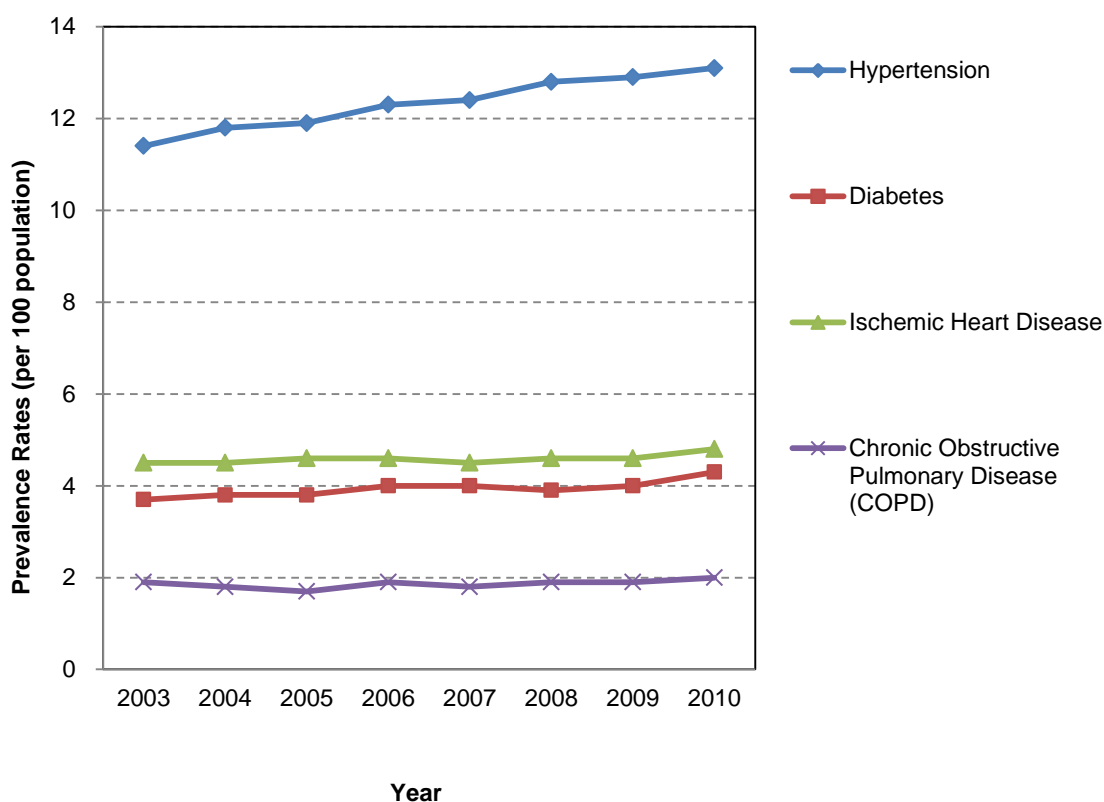
- <sup>1</sup> See Appendix A for definition.  
<sup>2</sup> N/A indicates that data were not available for a specific metric for this LGA  
<sup>3</sup> LICO - Low Income Cut Off (as defined by Statistics Canada) <http://www.statcan.gc.ca>  
<sup>4</sup> See Appendix A for more details.  
<sup>5</sup> Less than five languages may be listed if no others were reported. Six or more languages may be listed in the case of ties.  
<sup>6</sup> Less than five places of birth may be listed if no others were reported. Six or more places of birth may be listed in the case of ties.

## Local Geographic Area: Sundre

### CHRONIC DISEASE PREVALENCE

The figure below displays the rates per 100 population of the most prevalent chronic diseases in the local geographic area. The prevalence rates refer to the number of diagnosed individuals at a given time and have been standardized by age.

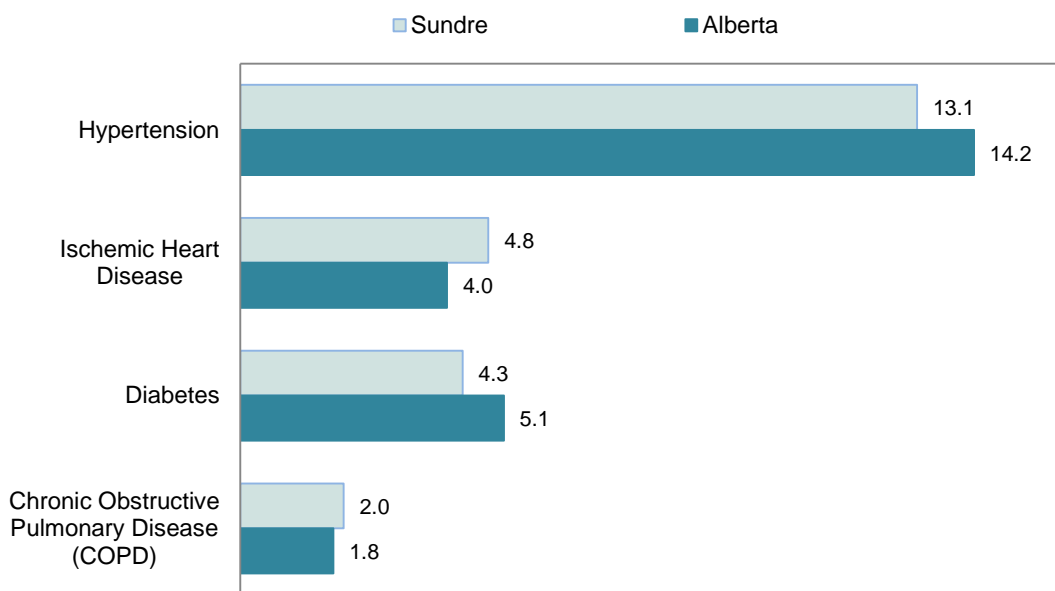
**FIGURE 4.1** LGA Age-Standardized Chronic Disease Prevalence Rates<sup>1</sup> (per 100 population) 2003 - 2010



On average, the condition with the highest chronic disease prevalence rate reported for Sundre during 2003 to 2010 was for hypertension. The largest rate of change during this time period was reported for hypertension (a 0.24 per 100 population average rate increase per year - based on regression line fitting). In 2010, Sundre ranked number 114 in hypertension, number 117 in diabetes, number 25 in ischemic heart disease and number 66 in COPD among prevalence rates reported for the 132 local geographical areas.

The following figure depicts the age-standardized prevalence rates of major chronic diseases, per 100 population, for 2010, comparing the local geographic area to Alberta.

**FIGURE 4.2** LGA versus Alberta Age-Standardized Chronic Disease Prevalence Rates (per 100 population), 2010



**Age-Standardized Prevalence Rates (per 100 population)**

In 2010, the Sundre prevalence rate for hypertension per 100 population was 0.9 times lower than the corresponding rate reported for the province (13.1 vs. 14.2 AB). In addition, Sundre showed prevalence rates higher than the provincial rates for 2 of the 4 chronic diseases included above.

**Sources:**

Alberta Health Care Insurance Plan (AHCIP) Physician Claims Data, Alberta Health  
 Alberta Health Care Insurance Plan (AHCIP) Quarterly Population Registry Files, Alberta Health  
 Alberta Hospital Discharge Abstract Database (DAD), Alberta Health  
 Postal Code Translation File, Alberta Health  
 Census 1991 Population Data, Statistics Canada

**Notes:**

<sup>1</sup> Age-standardized prevalence rates are adjusted using the direct method of standardization, with weights from Statistics Canada's 1991 census population.

**Methodology:**

See link: [http://www.ahw.gov.ab.ca/IHDA\\_Retrieval](http://www.ahw.gov.ab.ca/IHDA_Retrieval)

## Local Geographic Area: Sundre

### MATERNAL AND CHILD HEALTH

The following table highlights maternal and child health indicators such as birth weight, fertility rate, teen birth rate and prenatal smoking for the local geographic area and Alberta. The indicator information is presented as rates, percentages, or raw numbers, depending on the indicator.

**TABLE 5.1** Local Geographic Area Maternal and Child Health Indicators for Three-Year Period

Maternal and Child Health Indicators	Period	Sundre	Alberta
Number of Births	2008/2009 - 2010/2011	200	151,603
Percent Low Birth Weights (of Live Births) <sup>1</sup> , less than 2500 gm	2008/2009 - 2010/2011	2.5%	6.8%
Percent High Birth Weights (of Live Births) <sup>1</sup> , greater than 4000 gm	2008/2009 - 2010/2011	12.5%	10.3%
Birth Rate (per 1,000 population) <sup>1</sup>	2008/2009 - 2010/2011	19.7	27.4
Fertility Rate (per 1,000 Women 15 to 49 Years) <sup>1</sup>	2008/2009 - 2010/2011	45.1	53.1
Teen Birth Rate (per 1,000 Women 15 to 19 Years)	2008/2009 - 2010/2011	20.3	18.9
Percent Maternal Prenatal Smoking (of Deliveries)	2007/2008 - 2009/2010	26.7%	18.0%

During 2008/2009 to 2010/2011, Sundre's birth rate of 19.7 per 1,000 women was lower than the provincial rate, and the teen birth rate of 20.3 per 1,000 was similar to Alberta's teen birth rate. In addition, a higher proportion of prenatal smoking cases were reported in Sundre compared to the province (26.7% vs. 18.0% AB).

The following table presents the rates for childhood immunization coverage by the age of two for the local geographic area and Alberta. The data is provided for the most recent calendar year available.

**TABLE 5.2** Childhood Immunization Coverage Rates, 2010

DTaP-IPV-Hib (Diphtheria, Tetanus, Pertussis, Polio and Haemophilus Influenza B) Dose 4 of 4			
Age Group	Period	Sundre	Alberta
By Age Two	2010	72.4%	73.1%
MMR (Measles, Mumps, and Rubella)			
By Age Two	2010	85.2%	85.7%

By the age of two, 72.4% of children in Sundre (in 2010) had been vaccinated against DTaP-IPV-Hib (compared to 73.1% for AB), while 85.2% had received MMR vaccines (compared to 85.7% for AB).

**Sources:**

*Alberta Hospital Discharge Abstract Database (DAD), Alberta Health*  
*Alberta Health Care Insurance Plan (AHCIP) Annual Population Registry File, Alberta Health*  
*Alberta Vital Statistics Births File*  
*Regional Immunization Applications*  
*Immunization and Adverse Reaction to Immunization (Imm/ARI)*  
*Postal Code Translation File, Alberta Health*

**Notes:**

<sup>1</sup> See Appendix A for definition.



## Local Geographic Area: Sundre

### COMMUNICABLE DISEASES

The following table lists the rates of Sexually Transmitted Infections (STI)<sup>1</sup> for the most recent three-year periods from 2008 to 2012, for the local geographic area and Alberta.

**TABLE 6.1** Top 5 Sexually Transmitted Infection (STI) Rates (per 100,000 population)  
By Three-Year Period

STI (per 100,000 population)			
Period	Disease	Sundre	Alberta
2008-2011	Chlamydia	233.5	352.0
	Non-Gonococcal Urethritis	19.5	34.5
	Gonorrhea	9.7	41.0
	Mucopurulent Cervicitis	9.7	9.0
	Syphilis	N/A	6.0
2009-2012	Chlamydia	227.2	359.9
	Non-Gonococcal Urethritis	29.0	35.8
	Gonorrhea	4.8	36.8
	Mucopurulent Cervicitis	4.8	8.1
	Syphilis	N/A	4.8

Sundre's highest STI rate per 100,000 population in 2009 - 2012 was reported for chlamydia and this rate was lower than the provincial rate (227.2 vs. 359.9 AB).

STI rates in Sundre were higher than the provincial rates for none of the top 4 Alberta STIs in 2009 - 2012 (where comparisons could be made).

**Sources:**

*Alberta Health Care Insurance Plan (AHCIP) Annual Population Registry Files, Alberta Health  
Communicable Disease Reporting System (CDRS)  
Postal Code Translation File, Alberta Health*

**Notes:**

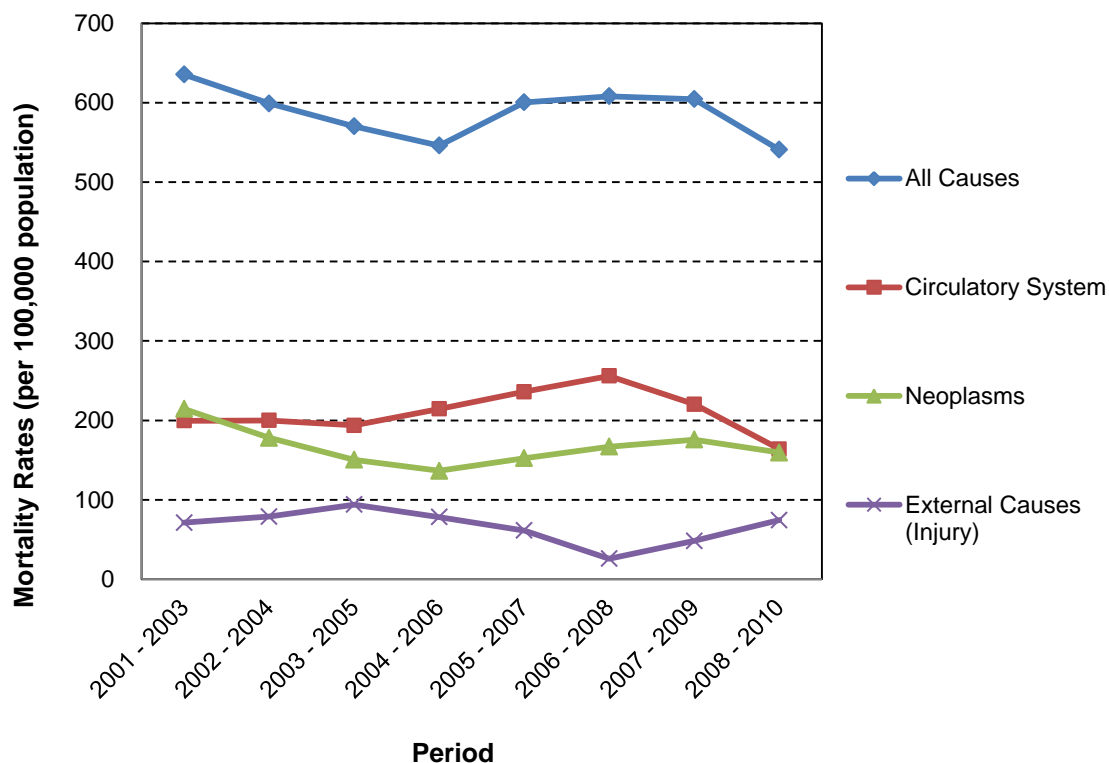
<sup>1</sup> See Appendix A for definition.

## Local Geographic Area: Sundre

### MORTALITY

Figure 7.1 displays the age-standardized mortality rates<sup>1</sup>, per 100,000 population, for the three most frequent causes of death and all causes combined. Data is provided for each three-year period between 2001 and 2010. The cause-specific mortality rate is defined as the proportion of deaths among people with a common health condition for each time period.

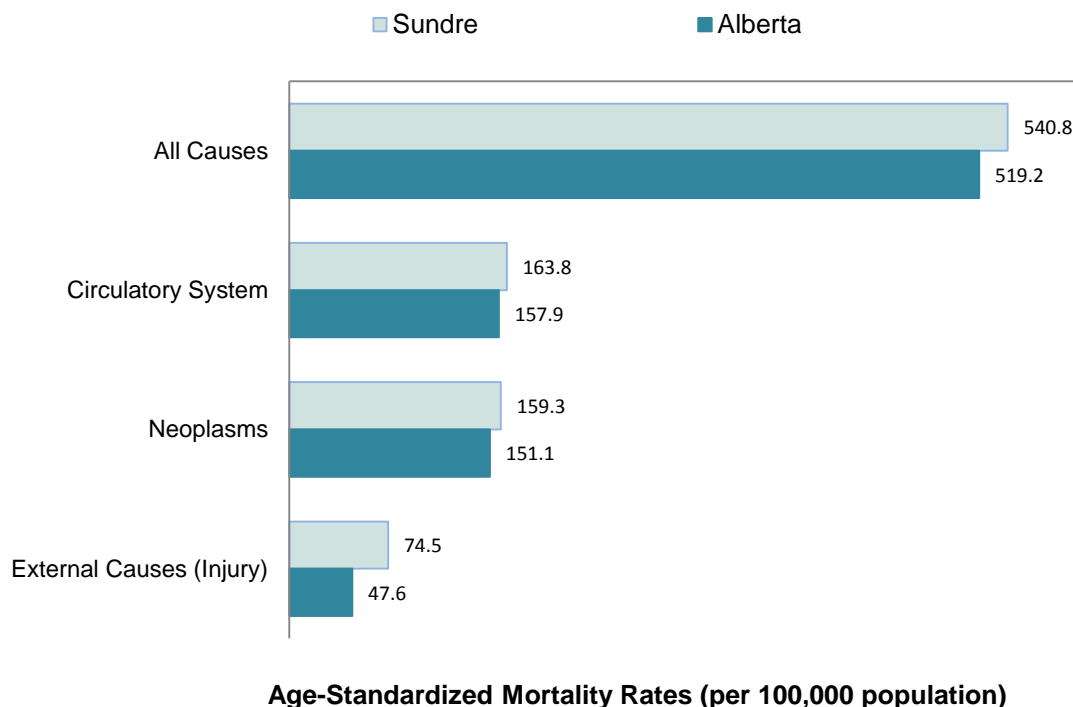
**FIGURE 7.1** Local Geographic Area Age-Standardized Mortality Rates (per 100,000 population) By Three-Year Period



The three-year mortality rates for Sundre ranged between 540.8 and 635.5 per 100,000 population during the study period. The three most frequent causes of death, namely, diseases of the circulatory system, neoplasms, and external causes accounted for 73.5% to 78.6% of all deaths from 2001 - 2003 to 2008 - 2010.

The mortality rates per 100,000 population for the three most frequent causes of death<sup>2</sup> and all causes combined are displayed below for both the local geographic area and Alberta, for the most recent three-year period available. The mortality rates have been standardized by age.

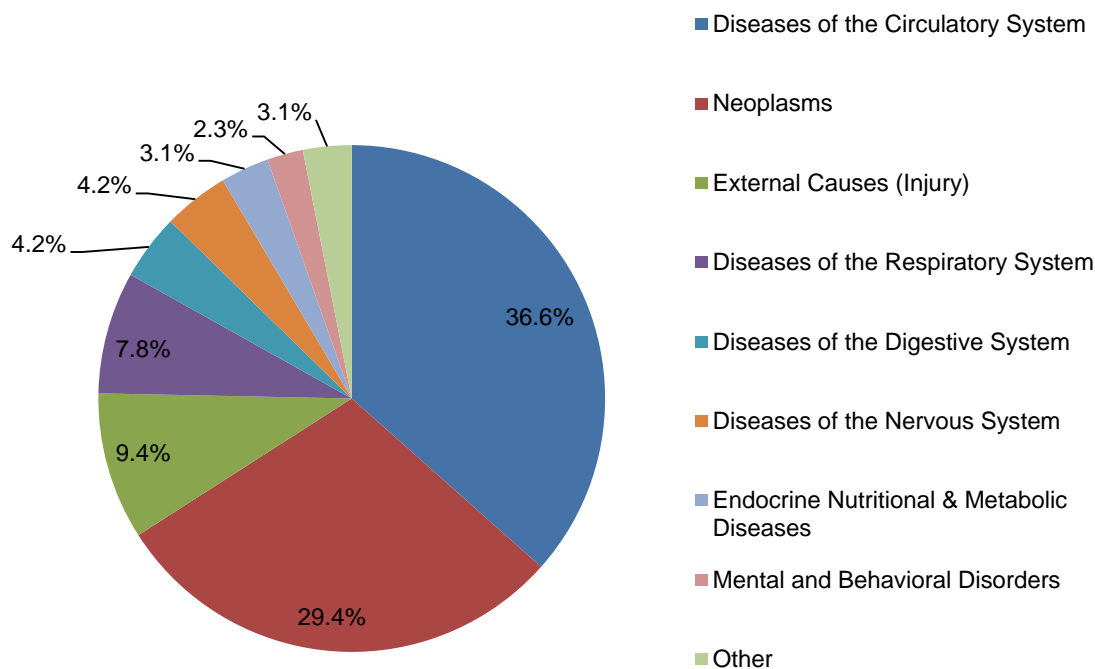
**FIGURE 7.2** Local Geographic Area versus Alberta Age-Standardized Mortality Rates (per 100,000 population) for Three-Year Period 2008 - 2010



Compared to the provincial mortality rate for all causes, Sundre reported a similar rate (540.8 vs. 519.2 AB). In 2008 - 2010, diseases of the circulatory system was the main cause of death for Sundre, with an associated mortality rate similar to the provincial rate per 100,000 population (163.8 vs. 157.9 AB). In addition, mortality rates were higher than the provincial rates for 3 of the 3 most common causes of death reported in Sundre.

The pie chart below illustrates the distribution of deaths by cause of death for the local geographic area, over the most recent 10-year period available. The legend presents causes of death in descending order of magnitude.

**FIGURE 7.3** LGA Distribution of Deaths by Cause of Death Across 10 Years, 2001 to 2010



Between 2001 and 2010 diseases of the circulatory system accounted for 36.6% of all deaths reported in Sundre. More than three-quarters of all reported deaths were due to three major causes: diseases of the circulatory system, neoplasms, and external causes (injury).

**Sources:**

Alberta Vital Statistics Death File  
Alberta Health Care Insurance Plan (AHCIP) Quarterly Population Registry Files, Alberta Health  
Postal Code Translation File, Alberta Health  
Census 1991 Population Data, Statistics Canada

**Notes:**

<sup>1</sup> Age-standardized mortality rates are adjusted using the direct method of standardization, with weights from Statistics Canada's 1991 census population.

<sup>2</sup> Cause of death is derived from International Classification of Diseases 10 (ICD10) coding system.

**Methodology:**

See link: [http://www.ahw.gov.ab.ca/IHDA\\_Retrieval](http://www.ahw.gov.ab.ca/IHDA_Retrieval)

## Local Geographic Area: Sundre

### EMERGENCY SERVICE UTILIZATION

The table below describes emergency visits by triage level<sup>1</sup> for patients residing in the local geographic area, for the three most recent fiscal years.

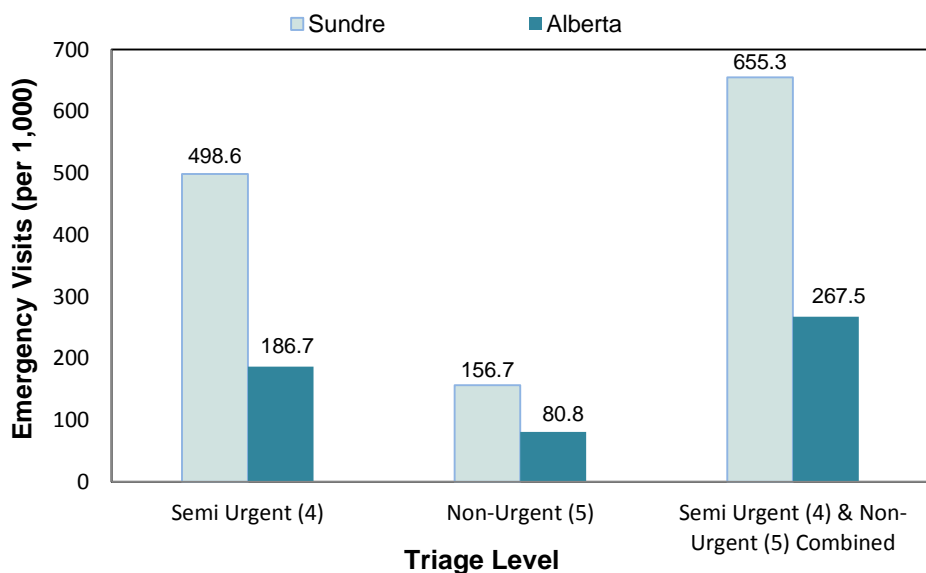
**TABLE 8.1** Emergency Visits for Patients Residing in the Local Geographic Area by Triage Level  
Fiscal Years 2009/2010 to 2011/2012

Triage Level	Emergency Visits		
	2009/2010	2010/2011	2011/2012
Resuscitation (1) and Emergency (2) Combined	140	198	261
Urgent (3)	960	1,361	1,432
Semi Urgent (4)	3,430	3,299	3,450
Non-Urgent (5)	1,239	1,083	1,084
Unknown	1,080	867	598
<b>Total</b>	<b>6,849</b>	<b>6,808</b>	<b>6,825</b>

The volume of emergency visits for patients residing in Sundre decreased by 0.4% between 2009/2010 and 2011/2012. In addition, semi-urgent and non-urgent visits combined accounted for 66.4% of all emergency visits in 2011/2012.

The following figure shows emergency visit rates by semi-urgent and non-urgent triage levels for patients residing in the local geographic area and Alberta, for the most recent fiscal year available.

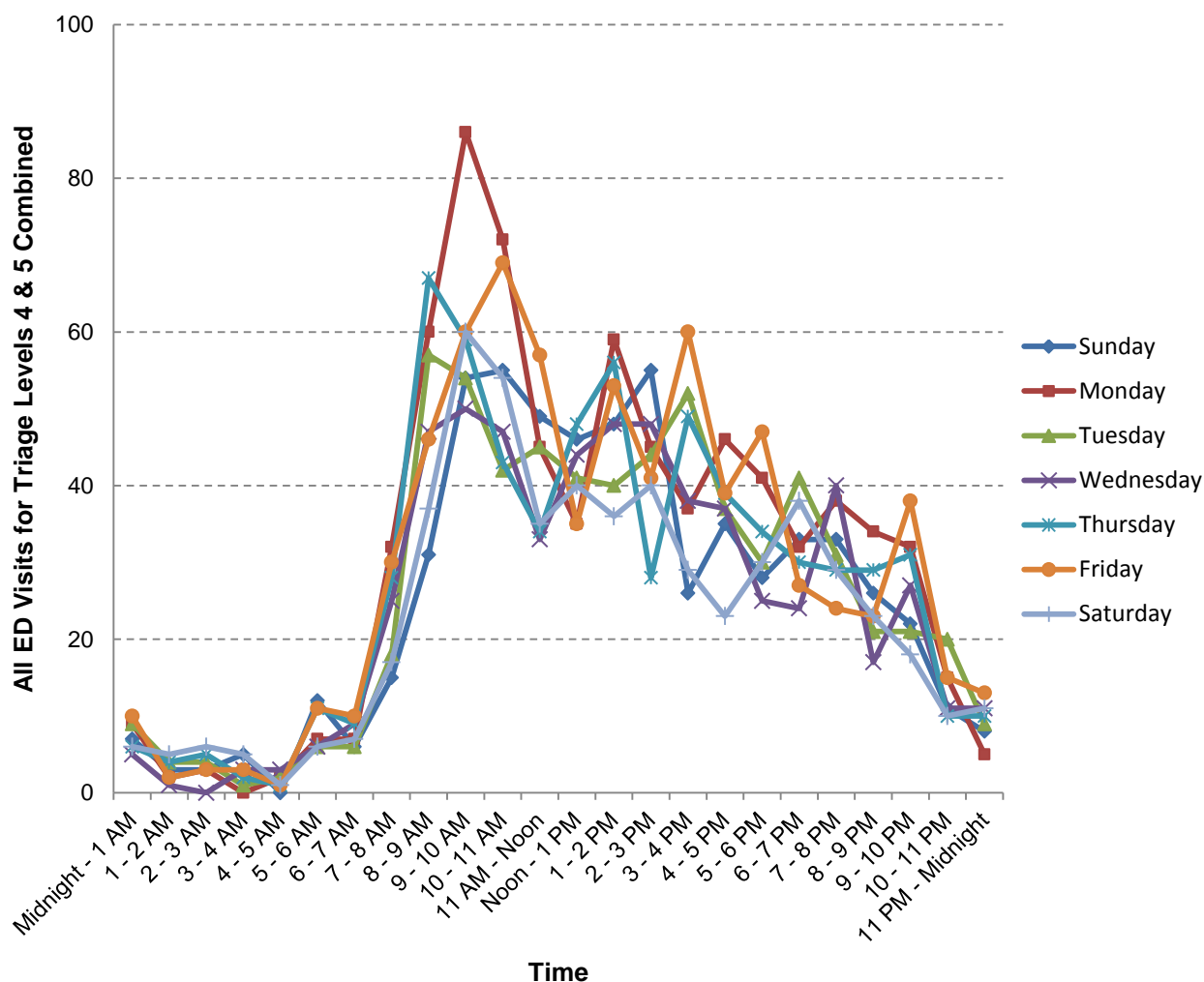
**FIGURE 8.1** Emergency Visit Rates<sup>1</sup> (per 1,000 population) for Triage Levels Semi-Urgent (4) and Non-Urgent (5)<sup>2</sup>, Fiscal Year 2011/2012



Sundre's combined semi-urgent and non-urgent emergency visit rate per 1,000 population was higher than the provincial rate in 2011/2012 (655.3 vs. 267.5 AB). Semi-urgent emergency visits occurred at a 2.7 times higher rate in Sundre compared to Alberta (498.6 vs. 186.7 AB).

A time profile of the number of emergency visits by day of the week is shown in the following figure. Data covers both semi-urgent and non-urgent emergency visit triage levels during the most recent fiscal year available, for patients residing in the local geographic area.

**FIGURE 8.2** All Emergency Visits for Patients Residing in the Local Geographic Area  
For Triage Levels Semi-Urgent(4) and Non-Urgent(5) Combined by Weekday and Time  
Fiscal Year 2011/2012



The peak total number of emergency visits for Sundre in 2011/2012 was reported for Mondays between 9 - 10 AM (86 emergency visits). The volume of emergency visits was low during the early morning hours and declined gradually throughout the day after peaking somewhere between late morning and early afternoon.

**Sources:**

*Ambulatory Care Data, Alberta Health*

*Alberta Health Care Insurance Plan (AHCIP) Annual Population Registry File, Alberta Health*

*Postal Code Translation File, Alberta Health*

**Notes:**

<sup>1</sup> See Appendix A for definition.

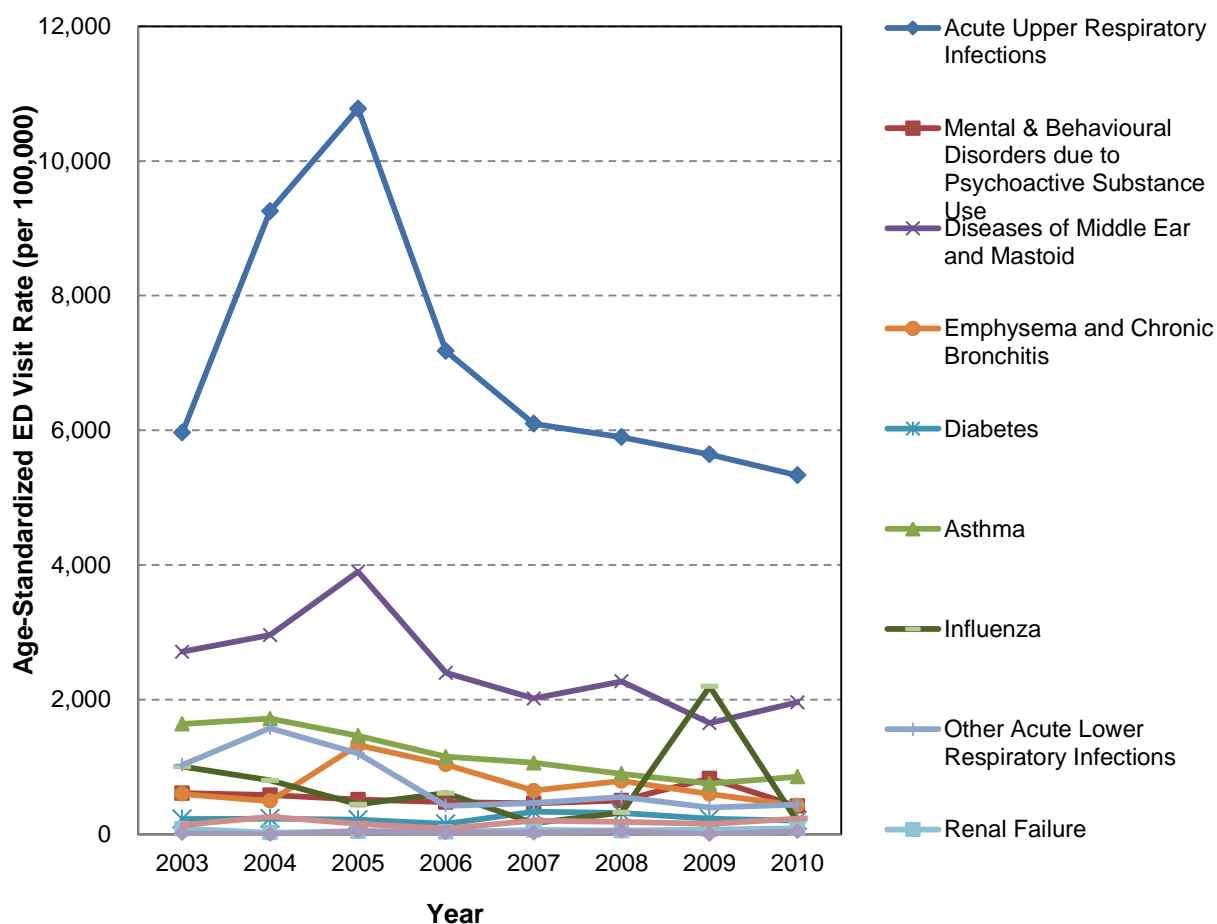
<sup>2</sup> In order to be consistent with the type of services expected to be provided by primary health care, the analysis above focused only on semi-urgent and non-urgent emergency triage levels.

## Local Geographic Area: Sundre

### EMERGENCY SERVICE UTILIZATION

The following figure provides age-standardized emergency visit rates for selected health conditions per 100,000 population for each year beginning in 2003. Emergency department visit rates are defined as the number of visits to emergency departments due to a certain condition, divided by the total population of the local geographic area.

**FIGURE 8.3** LGA Age-Standardized Emergency Visit Rates (per 100,000 population)  
For Selected Conditions, 2003 - 2010

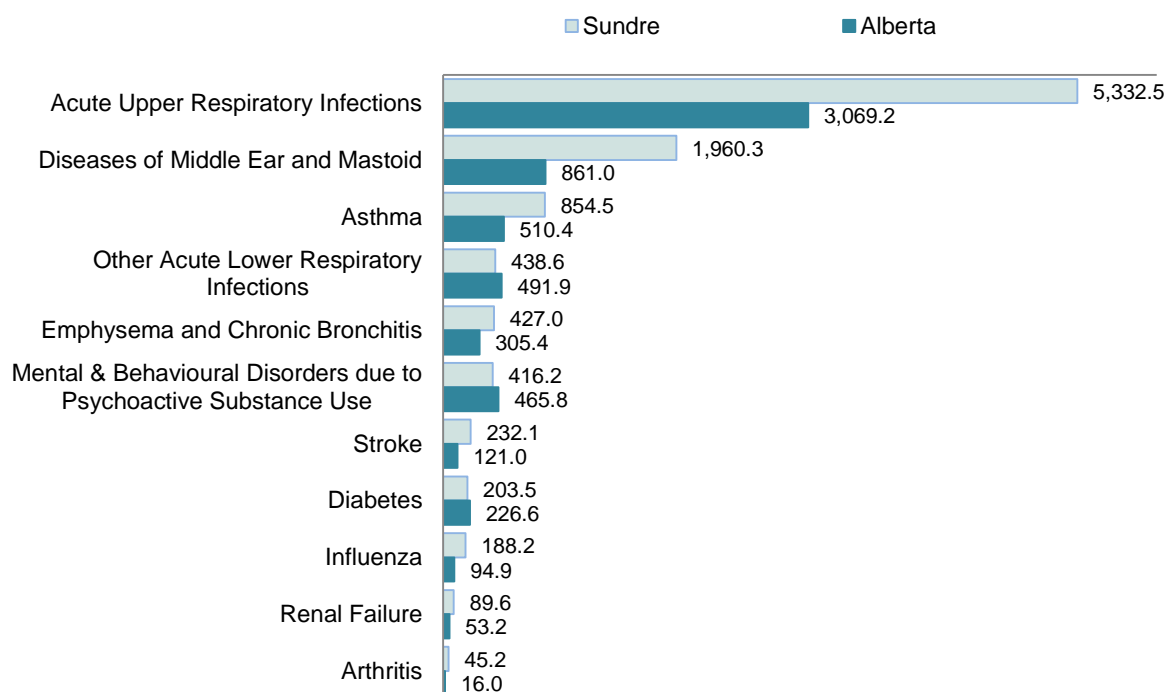


On average, the highest emergency visit rates, for selected health conditions, reported for Sundre during 2003 to 2010 were due to acute upper respiratory infections. In addition, among selected health conditions, the largest rate of change among emergency visits during this time period was reported for acute upper respiratory infections (a 455.0 per 100,000 population average rate decrease per year - based on regression line fitting).



Age-standardized emergency visit rates per 100,000 population, by selected health conditions, for the most current year available, are shown below for both the local geographic area and Alberta.

**FIGURE 8.4** LGA versus Alberta Age-Standardized Emergency Visit Rates (per 100,000 population) For Selected Conditions, 2010



**Age-Standardized Emergency Rates (per 100,000 population)**

In 2010, the three most common reasons for emergency visits, among selected health conditions, were: acute upper respiratory infections, diseases of middle ear and mastoid, and asthma. Among selected health conditions, the most common reason for emergency visits in 2010, acute upper respiratory infections, had a higher rate in Sundre compared to the provincial rate per 100,000 population (5,332.5 vs. 3,069.2 AB). Furthermore, Sundre showed emergency rates higher than the provincial rates for 8 of the 11 selected conditions.

**Sources:**

- Ambulatory Care Data, Alberta Health*
- Alberta Health Care Insurance Plan (AHCIP) Quarterly Population Registry Files, Alberta Health*
- Postal Code Translation File, Alberta Health*
- Census 1991 Population Data, Statistics Canada*
- Age-standardized rates are adjusted using the direct method of standardization, with weights from Statistics Canada's 1991 census population.*

**Notes:** <sup>1</sup> See Appendix A for definition.

**Methodology:**

See link: [http://www.ahw.gov.ab.ca/IHDA\\_Retrieval](http://www.ahw.gov.ab.ca/IHDA_Retrieval)

## Local Geographic Area: Sundre

### INPATIENT SERVICE UTILIZATION

The following table describes inpatient separation<sup>1</sup> rates per 1,000 population for patients residing in the LGA and Alberta accessing health facilities across all of Alberta.

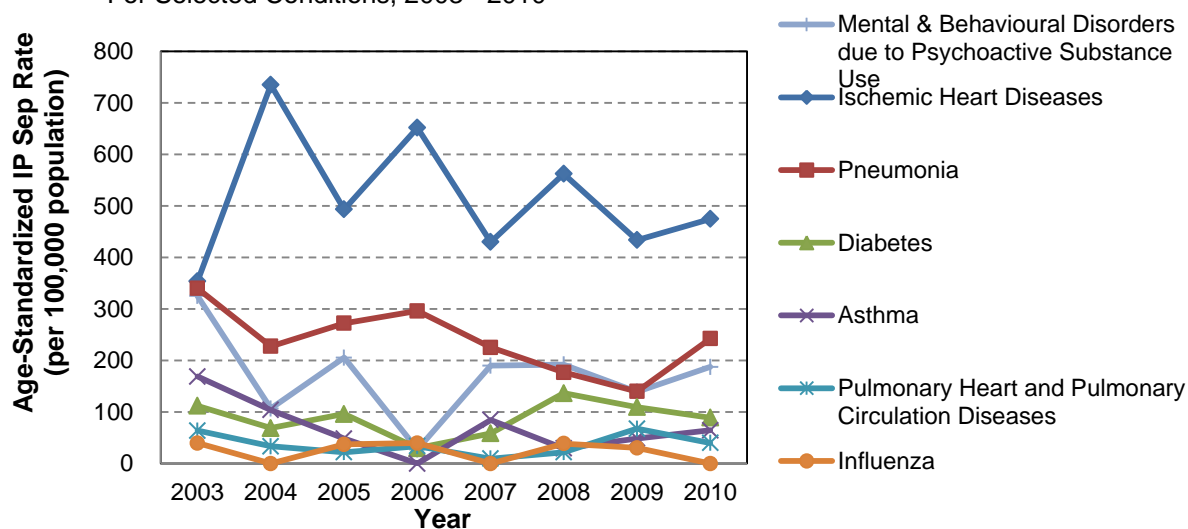
**TABLE 9.1** Inpatient Separation Rates (per 1,000 population) for Patients Residing in the LGA versus AB  
Fiscal Years 2009/2010 to 2011/2012

Inpatient Separation Rates (per 1,000 population)		
Fiscal Years	Sundre	Alberta
2009/2010	123.8	89.7
2010/2011	109.3	88.0
2011/2012	138.6	88.3

Sundre's inpatient separation rate for patients residing in the local geographic area varied between 109.3 in 2010/2011 and 138.6 in 2011/2012. In addition, in 2011/2012, the inpatient separation rate for patients residing in Sundre was 1.6 times higher than the provincial rate (138.6 vs. 88.3 AB).

The figure below presents inpatient separation rates for selected health conditions (per 100,000 population), for patients residing in the local geographic area, for the calendar years 2003 through 2010. The rate of inpatient separations is the ratio between the total number of separations and the total local population, for each year. The rates have been standardized by age.

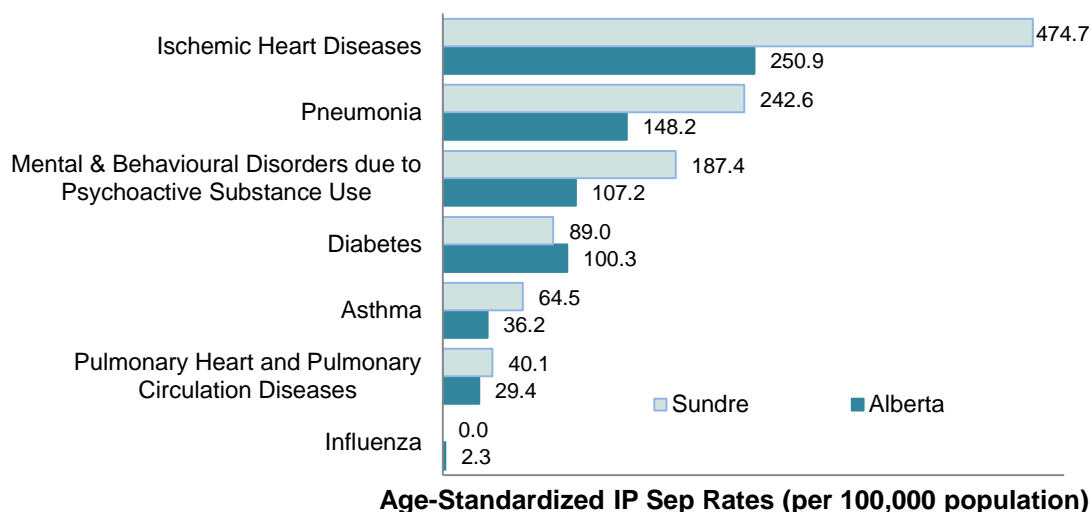
**FIGURE 9.1** LGA Age-Standardized<sup>2</sup> Inpatient Separation (IP Sep) Rates (per 100,000 population)  
For Selected Conditions, 2003 - 2010



On average, the highest inpatient separation rates, among selected health conditions, reported in Sundre during 2003 to 2010 were due to ischemic heart diseases. These rates reached a high of 735.2 per 100,000 population in 2004 and a low of 354.0 per 100,000 population in 2003. In addition, among selected conditions, the largest inpatient separation rate of change during this time period was reported for pneumonia (a 17.6 per 100,000 population average rate decrease per year - based on regression line fitting).

The following figure presents inpatient separation rates per 100,000 population for patients residing in the local geographic area, compared to provincial rates, for the most recent calendar year and selected health conditions.

**FIGURE 9.2** LGA versus Alberta Age-Standardized Inpatient Separation Rates (per 100,000 population) For Selected Conditions, 2010



In 2010, the three highest inpatient separation rates were reported for ischemic heart diseases, pneumonia, and mental & behavioural disorders due to psychoactive substance use. The most common reason for inpatient separations in Sundre was ischemic heart diseases, which had a much higher rate compared to the provincial rate per 100,000 population (474.7 vs. 250.9 AB). Additionally, Sundre's inpatient separation rates were higher than the provincial rates for 5 of the 7 diagnoses.

**Sources:**

- Alberta Hospital Discharge Abstract Database (DAD), Alberta Health
- Alberta Health Care Insurance Plan (AHCIP) Quarterly Population Registry Files, Alberta Health
- Postal Code Translation File, Alberta Health
- Census 1991 Population Data, Statistics Canada

**Notes:** <sup>1</sup> See Appendix A for definition.

<sup>2</sup> Age-standardized rates are adjusted using the direct method of standardization, with weights from Statistics Canada's 1991 census population.

**Methodology:**

See link: [http://www.ahw.gov.ab.ca/IHDA\\_Retrieval](http://www.ahw.gov.ab.ca/IHDA_Retrieval)

## Local Geographic Area: Sundre

### PRIMARY HEALTH CARE INDICATORS OF COMMUNITY PRIMARY CARE NEED

As a result of consultations and analysis during the summer of 2012, 13 indicators were identified to help identify the need for new or additional primary health care services across all local geographic areas throughout Alberta. Six of these indicators were related to utilization, another six were associated with health population needs and a final indicator, life expectancy at birth, is seen as a reflection of health status.<sup>1</sup> The indicators are standardized by age, where appropriate, to allow comparison of information across local geographic areas and the province. Examples of some of these indicators are given below.

- the burden of disease in the population that could be monitored and/or ameliorated by primary health care services (e.g. the proportion of the population with diabetes);
- a gap between population health needs and available health care services (e.g. use of emergency departments for non-urgent health care).

The table below profiles recent data for these indicators for both the local geographic area (LGA) and Alberta. Due to considerable differences in population densities and travel times to a variety of health services, the various LGAs have been categorized into five geographic peer groups: rural, rural remote, urban, metro, and metro moderate. This grouping (stratification) was applied to 7 of the 13 indicators below. For these indicators, the LGA indicator value is compared to the corresponding geographic peer group average (rather than the Alberta average) to allow for a more reasonable comparison between LGAs with similar characteristics.

**TABLE 10.1.** Proposed Primary Health Care Indicators of Community Primary Care Need

Utilization Indicators		Sundre	Alberta / Geographic Peer Group Average
1*	Travel: Percentage of Total Family Physician Claims Outside the Recipients Home Local Geographic Area, 2010/2011	23.6%	31.0%
2*	Ambulatory Care Sensitive Conditions - Age-Standardized Separation Rate (per 100,000 population), 2003 to 2011	730.3	708.8
3	Continuity of Care, 2010	28.9%	14.0%
4*	ED Visits Related to Mood Disorders (Age-Standardized, per 100,000 population), 2003 to 2011	534.3	469.8
5*	ED Visits Related to Anxiety Disorders (Age-Standardized, per 100,000 population), 2003 to 2011	1,024.1	948.6
6*	ED Visits Related to Injuries (Age-Standardized, per 100,000 population), 2003 to 2011	24,667.4	19,823.7

**TABLE 10.1.** Proposed Primary Health Care Indicators of Community Primary Care Need (continued)

Health Status Indicators		Sundre	Alberta / Geographic Peer Group Average
7	Diabetes Prevalence (per 100 population), 2010	4.3	5.1
8	Chronic Obstructive Pulmonary Disease Prevalence Rate (per 100 population), 2010	2.0	1.8
9	Age-Standardized Rate of People with Three or more Chronic Diseases (per 100 population), 2010	2.2	2.2
10	Influenza Vaccines for Those 65 and Over, 2011/2012	42.9%	40.6%
11*	Predicted Primary Health Care Utilization, 2006/2007 to 2008/2009	\$112.40	\$117.51
12*	Primary Health Care Service Gap, 2006/2007 to 2008/2009	-\$5.18	-\$2.92
Social Determinant of Health		Sundre	Alberta / Geographic Peer Group Average
13	Life Expectancy at Birth, 2000 to 2011	79.9	80.5

*\* Note: For these indicators, the Sundre indicator value is compared to the Alberta rural average to allow for a more reasonable comparison between LGAs with similar characteristics.*

Each of the 13 indicators displayed for Sundre is described below.

**Indicator 1:**

The percentage of total Family Physician claims outside the recipient's home local geographic area is a proxy for access to primary care facilities. This indicator is stratified by geographic peer groups (metro, metro moderate, urban, rural, rural remote) due to substantially different rates across groups. While the indicator provides values for all LGAs, the values are more informative for rural and rural remote areas (as travel inside urban areas has different meaning and impact).

For patients residing in Sundre a lower percentage of Family Physician services was provided outside the recipient's home local geographic area compared to the rural provincial average (23.6% vs. 31.0% AB rural).

**Indicator 2:**

The Canadian Institute of Health Information (CIHI) has recognized ambulatory care sensitive conditions (ACSC) separation rates as a valid proxy indicator for the robustness of a primary care system. The ACSC indicator measures the aggregate acute care separation rate, per 100,000 population, over one year for the following seven conditions: Angina, Asthma, Congestive Heart Failure, Chronic Obstructive Pulmonary Disorder, Diabetes, Epileptic Convulsion or Seizure, and Hypertension. A disproportionately high rate is presumed to reflect problems in obtaining access to appropriate primary care.

This indicator is stratified by geographic peer groups (metro, metro moderate, urban, rural, rural remote) due to substantially different rates across groups.

Sundre's separation rate for ambulatory care sensitive conditions (per 100,000 population) was similar to the corresponding rural provincial rate (730.3 vs. 708.8 AB rural).

### **Indicator 3:**

Continuity of care describes the percentage of patients with minor or severe chronic illnesses that have access to their family physician less than 50% of the time. Higher values indicate areas with higher proportions of "unhealthy" or "sick" patients who are weakly attached to their Family Physician. Lower values are preferable.

Sundre's percentage of patients with minor or severe chronic illnesses with a low degree of continuity of care was much higher than the percentage reported in Alberta (28.9% vs. 14.0% AB).

### **Indicator 4:**

The age-standardized emergency visit rates for mood disorder (per 100,000 population) are stratified by geographic peer groups (metro, metro moderate, urban, rural, rural remote) due to substantially different rates across groups.

Sundre's rate of emergency department visits related to mood disorders (per 100,000 population) was 1.1 times higher than the provincial rural average rate (534.3 vs. 469.8 AB rural).

### **Indicator 5:**

The age-standardized emergency visit rates for anxiety disorder (per 100,000 population) are stratified by geographic peer groups (metro, metro moderate, urban, rural, rural remote) due to substantially different rates across groups.

Sundre's rate of emergency department visits related to anxiety disorders (per 100,000 population) was 1.1 times higher than the provincial rural average rate (1,024.1 vs. 948.6 AB rural).

### **Indicator 6:**

The age-standardized emergency visit rates due to injuries, per 100,000 population, (excluding adverse effects due to drugs/medical procedures) are stratified by geographic peer groups (metro, metro moderate, urban, rural, rural remote) due to substantial differences across groups.

Emergency visits related to injuries occurred at a 1.2 times higher rate in Sundre, compared to the provincial rural average rate per 100,000 population (24,667.4 vs. 19,823.7 AB rural).

**Indicator 7:**

Chronic diseases such as diabetes are a heavy burden for the health care system in terms of both associated costs and the impact they have on an individual's quality of life. This indicator presents the age-standardized diabetes prevalence rate per 100 population.

The prevalence rate for diabetes in Sundre was lower than the provincial rate (4.3 vs. 5.1 AB).

**Indicator 8:**

Chronic diseases such as Chronic Obstructive Pulmonary Disease (COPD) are a heavy burden for the health care system in terms of both associated costs and the impact they have on an individual's quality of life. This indicator presents the age-standardized COPD prevalence rate per 100 population (due to small numbers).

For COPD, the prevalence rate in Sundre was 1.1 times higher than the provincial rate (2.0 vs. 1.8 AB).

**Indicator 9:**

Interdisciplinary care and coordination of services is required for patients with multiple chronic conditions. The age-standardized rate of people with three or more chronic diseases tracks the proportion of patients with three or more conditions which may include: COPD, diabetes, ischemic heart disease, asthma, and/or kidney disease.

The age-standardized rate for people with three or more chronic diseases per 100 population was similar in Sundre compared to the province (2.2 vs. 2.2 AB).

**Indicator 10:**

The percentage of influenza vaccines administered annually to 65 year olds and over is an important primary health care indicator of preventive services delivered through primary health care. The data for this indicator includes immunizations delivered by community pharmacists and physicians between September 1, 2011 and March 31, 2012.

Sundre's percentage of the population 65 and over who had been administered influenza vaccines was higher than the provincial percentage (42.9% vs. 40.6% AB).

### **Indicator 11:**

The Health Human Resource Forecasting and Simulation Model (HHRFSM) predicts future need/use of primary health care services by residents, based on the characteristics of the individuals and their community.

HHRFSM predicts future primary health care utilization in terms of costs, specifically the expected per capita billings for general practitioner visits. The indicator constitutes a composite measure of relative health need based on personal characteristics (e.g. age, gender), health status (e.g. chronic diseases, inpatient status) and various socio-economic factors (e.g. educational level, income level).

The dollar value for community and primary care billings per capita during 2006/2007 to 2008/2009 was \$112.40 in Sundre, 4.3% lower than the \$117.51 rural provincial average.

### **Indicator 12:**

The primary health care service gap is measured as the difference between actual and predicted per capita billings for community and primary care services from HHRFSM (see indicator 11). A positive value indicates the average resident is receiving more primary health care services than expected; negative values indicate fewer services received than expected. Stratification by the geographic peer group (metro, metro moderate, urban, rural, rural remote) was applied to this indicator due to substantially different rates across groups.

The dollar gap between actual and predicted community and primary care per capita billings during 2006/2007 and 2008/2009 was \$-5.18 in Sundre compared to the \$-2.92 rural provincial average.

### **Indicator 13:**

The life expectancy at birth correlates highly with determinants of health and is a good predictor of future health related costs. This measure is considered a significant indicator of overall population health.

Sundre had a lower life expectancy at birth in comparison to the provincial life expectancy (79.9 years vs. 80.5 years AB).

#### **Sources:**

*Health Human Resource Forecasting and Simulation Model, Alberta Health*  
*Interactive Health Data Application (IHDA), Alberta Health*  
*Clinical Risk Grouper (CRG) Application, Alberta Health*  
*Alberta Provider Directory, Alberta Health*  
*Alberta Health Care Insurance Plan (AHCIP) Physician Claims Data, Alberta Health*  
*Stakeholder Registry File, Alberta Health*  
*Alberta Hospital Discharge Abstract Database (DAD), Alberta Health*  
*Ambulatory Care Data, Alberta Health*  
*Wait List Registry, Alberta Health*  
*Alberta Health Care Insurance Plan (AHCIP) Quarterly Population Registry Files, Alberta Health*  
*Case Costing Files, Alberta Health*



*Postal Code Translation File, Alberta Health*  
*Alberta Blue Cross Claims Data, Alberta Health*  
*Census 2006 Population Data, Statistics Canada*  
*Canadian Community Health Survey (CCHS), Statistics Canada*  
*Long Term Care Funding File, Alberta Health*  
*Continuing Care Bed Survey, Alberta Health*

**Notes:** <sup>1</sup> For more details see Local Area Family Care Clinic Prioritization Framework Report:  
<http://www.health.alberta.ca/documents/PHC-FCC-Framework-TELUS-2012.pdf>

## Local Geographic Area: Sundre

### ACCESS TO HEALTH CARE SERVICES

The table below provides the number of ambulatory care visits or inpatient separations made by local area residents to facilities within the local geographic area as well as facilities outside of it. The data is provided for the most recent fiscal year available.

**TABLE 11.1** Ambulatory Care Visits and Inpatient Separations for the Local Geographic Area Residents<sup>1</sup>  
To Facilities Located In versus Out of the Local Geographic Area, Fiscal Year 2011/2012

Ambulatory Care Visits				
Visits Within Local Area of Residence (IN)	Visits Outside Local Area of Residence (OUT)	Total Visits	Percent IN	Percent OUT
8,571	7,863	16,434	52.2%	47.8%
Inpatient Separations (Seps)				
Seps Within Local Area of Residence	Seps Outside Local Area of Residence	Total Seps	Percent IN	Percent OUT
417	542	959	43.5%	56.5%

The following table focuses on ambulatory care visits or inpatient separations made by local area residents to the top three accessed non-local facilities. Of particular interest is the percentage of non-local visits to, or separations from each of the three facilities out of all non-local visits or separations. These percentages appear in the last column of the table below. The data is provided for the most recent fiscal year available.

**TABLE 11.2** Top 3 Non-Local Ambulatory Care Facilities Accessed by Local Residents  
Fiscal Year 2011/2012

Local Residents Accessing Non-Local Ambulatory Care Facilities				
Ambulatory Care Facility Name	Facility Municipality	Facility LGA	Number of OUT Visits	% of Total OUT Visits
Red Deer Regional Hospital Centre	Red Deer	Red Deer - SW	2,340	29.8%
Foothills Medical Centre	Calgary	Calgary - Centre North	1,783	22.7%
Olds Hospital and Care Centre	Olds	Olds	724	9.2%

**TABLE 11.2** Top 3 Non-Local Acute Care Hospitals Accessed by Local Residents  
 Fiscal Year 2011/2012 (continued)

Local Residents Accessing Non-Local Acute Care Hospitals				
Hospital Name	Hospital Municipality	Hospital LGA	Number of OUT Seps	% of Total OUT Seps
Red Deer Regional Hospital Centre	Red Deer	Red Deer - SW	223	41.1%
Foothills Medical Centre	Calgary	Calgary - Centre North	107	19.7%
Olds Hospital and Care Centre	Olds	Olds	66	12.2%

**Sources:**

*Ambulatory Care Data, Alberta Health*

*Alberta Hospital Discharge Abstract Database (DAD), Alberta Health*

*Alberta Health Care Insurance Plan (AHCIP) Annual Population Registry File, Alberta Health*

*Postal Code Translation File, Alberta Health*

## Definitions

## Appendix A

### Age Standardization

Age standardization is a technique applied to make rates comparable across groups with different age distributions. A simple rate is defined as the number of people with a particular condition divided by the whole population. An age-standardized rate is defined as the number of people with a condition divided by the population within each age group. Standardizing (adjusting) the rate across age groups allows a more accurate comparison between populations that have different age structures. Age standardization is typically done when comparing rates across time periods, different geographic areas, and or population sub-groups (e.g. ethnic group).

### Band Housing

For historical and statutory reasons, shelter occupancy on reserves does not lend itself to the usual classification by standard tenure categories. Therefore, a special category, band housing, has been created for 1991 Census products. Band housing also appears in the 1996, 2001, and 2006 Census products. (Statistics Canada)

### Birth Rate

The number of live births, of a given geographic area in a given fiscal year, per 1,000 population of the same geographic area in the same year. (Statistics Canada)

### Body Mass Index (BMI)

The BMI is a method of classifying body weights by health risk level, adopted by the World Health Organization (WHO). Guidelines were put in place by Health Canada to clearly define this index.

The BMI is computed as an individual's weight (in kilograms) divided by the square of their height (in meters). The standard BMI categories used are: underweight, normal, overweight and obese (classes I-III). For the purposes of this report, the following categories were used:

BMI Categories	BMI
under weight	less than 18.50
normal weight	18.50 to 24.99
overweight	25.00 to 29.99
obese	30.00 or greater

Obesity has been linked with many chronic diseases, including hypertension, type 2 diabetes, cardiovascular disease, osteoarthritis and certain types of cancer. (Statistics Canada, Canadian Community Health Survey)

### Canadian Triage and Acuity Scale (CTAS)

A scale to categorize patients according to the type and severity of their initial presenting signs and symptoms at the Emergency Department that helps to determine priorities for treatment. The

Canadian Triage and Acuity Scale (CTAS) is used to determine the triage level. There are 5 levels, with level 1 being the most urgent and level 5 the least urgent.

#### Triage Level 1 – Resuscitation

Conditions that are threats to life or limb (or imminent risk of deterioration) requiring immediate aggressive interventions.

#### Triage Level 2 – Emergent

Conditions that are a potential threat to life, limb or function, requiring rapid medical intervention or delegated acts.

#### Triage Level 3 – Urgent

Conditions that could potentially progress to a serious problem requiring emergency intervention. May be associated with significant discomfort or affecting ability to function at work or activities of daily living.

#### Triage Level 4 – Less Urgent (Semi urgent)

Conditions that are related to patient age, distress, or potential for deterioration or complications and would benefit from intervention or reassurance within 1-2 hours.

#### Triage Level 5 – Non Urgent

Conditions that may be acute but non-urgent as well as conditions which may be part of a chronic problem with or without evidence of deterioration. The investigation or interventions for some of these illnesses or injuries could be delayed or even referred to other areas of the hospital or health care system.

#### Triage Level 9 – Unknown

The information regarding this particular level is included in the National Ambulatory Care Reporting System Manual available through CIHI.

For further details please refer to the link below:

[http://www.calgaryhealthregion.ca/policy/docs/1451/Admission\\_over-capacity\\_AppendixA.pdf](http://www.calgaryhealthregion.ca/policy/docs/1451/Admission_over-capacity_AppendixA.pdf)

### **Census**

A survey that collects data from all the members of a population, whether it's people or businesses. The most common use of the term "Census" is the population Census of Canada which is taken at 5-year intervals which counts persons and households and a wide variety of characteristics. In fact, some of the Census questions are asked on a sample basis i.e. in the past every fifth household receives a long-form questionnaire asking additional questions. (Statistics Canada)

### **Census Family**

A family as defined by the Census includes one of the following: a married couple and the children, if any, of either or both spouses; a couple living common law and the children, if any, of either or both partners; or, a lone parent of any marital status with at least one child living in the same

dwelling. In addition, the following criteria must apply: all members of a particular census family live in the same dwelling; a couple may be of opposite or same sex; children may be children by birth, marriage or adoption regardless of their age or marital status as long as they live in the dwelling and do not have their own spouse or child living in the dwelling. Grandchildren living with their grandparent(s) but with no parents present also constitute a census family. (Statistics Canada)

### **Chinese, n.o.s.**

The 2006 census category 'Chinese, n.o.s.' (not otherwise specified) includes responses of 'Chinese' as well as all Chinese languages other than Cantonese, Mandarin, Taiwanese, Chaochow (Teochow), Fukien, Hakka and Shanghainese. (Statistics Canada)

### **Chronic Obstructive Pulmonary Disease (COPD)**

Population aged 35 and over who reported being diagnosed by a health professional with chronic bronchitis, emphysema or chronic obstructive pulmonary disease (COPD). (Statistics Canada, Canadian Community Health Survey)

COPD is a progressive disease that makes it hard to breathe. It can cause coughing that produces large amounts of mucus, wheezing, shortness of breath, chest tightness, and other symptoms. Cigarette smoking is the leading cause of COPD. Most people who have COPD smoke or used to smoke. Long-term exposure to other lung irritants (such as air pollution, chemical fumes, or dust) also may contribute to COPD.

### **Emergency Department (ED) Visit Rate**

The number of visits to the emergency department divided by the total population of the local geographic area.

### **Family Care Clinic (FCC)**

Family Care Clinics provide primary health care services, such as diagnosis and treatment of illness, immunizations, screening and links to other health services and community agencies. The clinics will emphasize health promotion, disease and injury prevention, and self-management and care of chronic disease. FCCs will offer extended hours of service and same day access.

### **Fertility Rate**

The fertility rate is the number of live births per 1,000 women of reproductive age (15 - 49 years) in a population per year. This is a more standardized way to measure fertility in a population than birth rate because it accounts for the percentage of women of reproductive age. (Statistics Canada)

### **First Nations with Treaty Status**

First Nation is a term that came into common usage in the 1970s to replace the word "Indian". Although the term First Nation is widely used, no legal definition of it exists. Among its uses, the term "First Nations people" refers to the Indian people in Canada, both Status and non-Status.

Starting in 1701, the British Crown entered into solemn treaties to encourage peaceful relationships between First Nations and non-Aboriginal people. Over the next several centuries, treaties were signed to define, among other things, the respective rights of Aboriginal people and governments to use and enjoy lands that Aboriginal people traditionally occupied. The Government of Canada and the courts understand treaties between the Crown and Aboriginal people to be solemn agreements

that set out promises, obligations and benefits for both parties (Aboriginal Affairs and Northern Development Canada).

### **Health Status**

The level of health of the individual, group or population as subjectively assessed by the individual or by more objective measures. (Statistics Canada)

### **High Birth Weight**

Birth weight is the body weight of a baby at its birth. High birth weight is defined as live births with a weight of 4,500 grams or more, expressed as a percentage of all live births with known weight (Statistics Canada, Vital Statistics, Birth Database)

### **Hospitalization Rate**

Age-standardized rate of acute care hospitalization, per 100,000 population. (Canadian Institute for Health Information)

### **Infant Mortality Rate**

Infants who die in the first year of life, expressed as a count and a rate per 1,000 live births. (Statistics Canada, Vital Statistics, Birth and Death Databases)

### **Inpatient**

An individual who has been officially admitted to a hospital for the purpose of receiving one or more health services. (Canadian Institute for Health Information: MIS Standards 2011)

### **Inpatient Separations (Seps)**

A separation from a health care facility occurs anytime a patient (or resident) leaves because of death, discharge, sign-out against medical advice or transfer. The number of separations is the most commonly used measure of the utilization of hospital services. Separations, rather than admissions, are used because hospital abstracts for inpatient care are based on information gathered at the time of discharge.

### **Low-income Cutoffs (LICOs)**

Represent an income threshold where a family is likely to spend 20% more of its income on food, shelter and clothing than the average family, leaving less income available for other expenses such as health, education, transportation and recreation. The LICOs are calculated for families and communities of different sizes. (Statistics Canada)

### **Low Birth Weight**

Birth weight is the body weight of a baby at its birth. Live births less than 5.5 pounds or 2500 grams at birth are considered as babies with low birth weight. Low birth weight is a key determinant of infant survival, health, and development. (Statistics Canada, Vital Statistics, Birth Database)

### **Mortality Rate by Cause of Death**

The age-standardized mortality rate by cause of death is a measure of the frequency (rate) at which deaths occur in a given population due to a certain cause. The potential confounding effect of

different age structures (i.e. across geographic boundaries or years) is reduced when comparing rates that have been age-adjusted. (Interactive Health Data Application, Alberta Health)

### Neoplasms

An unusual new growth of tissue resulted by uncontrolled production of cells. These cells do not coordinate with normal cells and may appear abnormal compared to the normal cells. The term "tumor" is used to name a neoplasm that has formed a lump. Some neoplasms do not form lumps. The neoplasms that spread to the other parts of the body are commonly known as 'Cancers'. (<http://www.cancer.gov/cancertopics/understandingcancer/cancer/AllPages>)

### Physical Activity

Population aged 12 and over who reported a level of physical activity, based on their responses to questions about the frequency, nature and duration of their participation in leisure time physical activity. Respondents are classified as active, moderately active or inactive based on an index of average daily physical activity over the past 3 months.

For each leisure time physical activity engaged in by the respondent, an average daily energy expenditure is calculated by multiplying the number of times the activity was performed by the average duration of the activity by the energy cost (kilocalories per kilogram of body weight per hour) of the activity. The index is calculated as the sum of the average daily energy expenditures of all activities. Respondents are classified as follows: 3.0 kcal/kg/day or more = physically active; 1.5 to 2.9 kcal/kg/day = moderately active; less than 1.5 kcal per day = inactive. (Statistics Canada, Canadian Community Health Survey)

### Prevalence Rate

Prevalence is a measure of disease that allows us to determine a person's likelihood of having a disease. Therefore, the number of prevalent cases is the total number of cases of disease existing in a population. A prevalence rate is the total number of cases of a disease existing in a population divided by the total population. (<http://www.health.ny.gov/diseases/chronic/basicstat.htm>)

### Primary Care

The first point of contact that people have with the health care system for medical needs requiring treatment and referral to other services as needed and is usually provided by a family physician or other health care professional. (<http://www.albertapci.ca/aboutpcns/primarycare/pages/default.aspx>)

### Primary Care Networks

Primary Care Networks are groups of family doctors that work with Alberta Health Services and other health professionals to coordinate the delivery of primary health services for their patients.

### Private Household

A person or a group of people occupying the same dwelling and who do not have a usual place of residence elsewhere in Canada or abroad. The household universe is divided into two sub-universes on the basis of whether the household is occupying a collective dwelling or a private dwelling. The latter is a private household. (Statistics Canada)



### Qualifier (comparisons between indicator values)

In comparing indicators across local geographic areas (LGAs) and the Province, this report uses qualifiers such as 'higher than', 'lower than', 'similar to', etc. These statements are based on a simple statistical comparison that determines how far apart the indicator values are on the full scale of values for the indicator. For each indicator, the standard deviation (SD) was used as the measuring stick for whether the values are "close" or "far apart". For each indicator, the distance between the LGA value and the provincial (AB) value was measured as number of SDs, and the direction of the difference (plus or minus). For example, if the LGA value is 2 SDs above the AB value, then the LGA value is said to be 'much higher' than the provincial value. The complete set of comparison criteria is given below.

Qualifier	Distance between values
Much Lower	below -1.5 SD
Lower	-1.5 SD to -0.25 SD
Similar/Comparable	-0.25 SD to +0.25 SD
Higher	+0.25 SD to +1.5 SD
Much Higher	+1.5 SD and higher

### Separation Rate

A separation from a health care facility occurs anytime a patient (or resident) leaves because of death, discharge, sign-out against medical advice or transfer. The separation rate is the total number of inpatient separations divided by the total population.

### Self-Perceived Mental Health

Perceived mental health is a general indication of the number of people in the population suffering from some form of mental disorder, mental or emotional problems or distress, not necessarily reflected in self-perceived health. This data is usually collected through surveys where respondents are asked to rate their mental health as poor, fair, good, very good or excellent. (Statistics Canada, Canadian Community Health Survey).

### Smoker

As defined by Statistics Canada, 'smokers' are members of the population aged 12 and older who report being a current smoker. A "daily smoker" is someone who reports smoking cigarettes every day (although it does not take into account the number of cigarettes smoked). 'Occasional smokers' refers to those who reported smoking cigarettes occasionally; this includes former daily smokers who now smoke occasionally. (Statistics Canada, Canadian Community Health Survey)

### Sexually Transmitted Infection (STI)

An infection that can be transferred from one person to another through sexual contact. (Public Health Agency of Canada)

### Teen Birth Rate

The teenage live birth rate is the number of live births per 1,000 women aged 15 to 19. (E-STAT, Statistics Canada).

## Community Services

## Appendix B

### ONLINE RESOURCES

#### 1. Aboriginal Affairs

- Alberta First Nation Community Profiles:  
<http://pse5-esd5.ainc-inac.gc.ca/fnp/Main/Search/FNListGrid.aspx?lang=eng>  
This link provides a collection of information that describes individual First Nation communities across Canada. It also allows you to quickly locate First Nation communities by consulting [the interactive map](#)
- Delegated First Nation Agencies:  
<http://humanservices.alberta.ca/family-community/15540.html>  
This link provides a list and contact details of delegated First Nation agencies and societies in Alberta.
- Programs and Services for Aboriginal People:  
<http://www.programs.alberta.ca/Living/648.aspx?N=770+173>  
This link provides an online resource to programs and services, such as Online Services, Financial Resources, Licensing and Registration, and Publications relevant to Aboriginal people in Alberta.
- Local Resources:
  - Find a list and map of your local delegated First Nation Agencies  
<http://humanservices.alberta.ca/family-community/15540.html>

#### 2. Education

- Alberta Education and Training:  
<http://alberta.ca/educationtraining.cfm>  
This link provides resources for schooling in Alberta through primary years to post-secondary and life-long learning.
- Local Resources:
  - Find a directory of your local schools and school boards:  
<http://www.education.alberta.ca/apps/schoolsdir/>  
This link provides a list of school authorities and associated public, private, francophone and early childhood services – schools are listed in alphabetical order. It also provides contact information and links to school authority websites.

#### 3. Employment

- Employment resources: <http://www.programs.alberta.ca/Living/5960.aspx?Ns=5246&N=770>  
This link provides resources for finding a job, including career planning, training and development, job search and job postings. It also provides general career and employment resources for self-employed, youth, persons with disabilities, immigrants and aboriginal people.

- Local resources:
  - Find your local employment resources:  
<http://humanservices.alberta.ca/services-near-you/11959.html>  
This link provides employment, training and career services by region. Each region links to a comprehensive list of office locations, job fairs and service directories.

#### 4. Family and Children

- Children and Family Services:  
<http://humanservices.alberta.ca/family-community.html>  
This link provides links to programs and services that support families and communities; it provides information on child care, parenting, women's issues, youth programs, safer communities, and family community support services.
- Programs and Services for Children:  
<http://www.programs.alberta.ca/Living/650.aspx?N=770+759>  
This link provides links to featured programs and services such as *Kids Help Phone Online*, *Safe Kids Canada* and *Traffic Safety Just for Kids*. It also contains activity resources for children such as colouring books and cook books.
- Programs and Services for Parents:  
<http://www.programs.alberta.ca/Living/9281.aspx?N=770+9252>  
This link provides resources for parents on childcare, finances and registration of birth.
- Programs and Services for Youth:  
<http://www.programs.alberta.ca/Living/678.aspx?N=770+177>  
This link provides resources on youth programs and services (*4-H Clubs of Alberta*, *B-Free - Stand Up and Stop Bullying*, *Get Web Wise and Young Workers*); Online Services (high school transcripts), Financial Resources (scholarship, bursary and grant programs), Licensing and Registration (social insurance number, learner's permit, driver's licence).

#### 5. Housing

- Housing and Property:  
<http://www.programs.alberta.ca/Living/6345.aspx?N=770+599>  
This link provides information on housing and property in Alberta, including information for tenants and landlords.
- Local Resources:
  - Find your local housing programs and services:  
<http://www.programs.alberta.ca/Living/13810.aspx?Ns=13705+13711+13738&N=770>  
This link provides information and links to different local and regional Housing Management Bodies in Alberta. It also provides a link to housing information specific to seniors, persons with disabilities and homeless persons. Also includes information and tips for landlords and tenants.

- Find your local homeless support resources:  
<http://humanservices.alberta.ca/homelessness/14633.html>  
This link provides information on support services provided in Edmonton, Fort McMurray, Grand Prairie, Lloydminster, Red Deer, Calgary, Medicine Hat and Lethbridge.  
<http://humanservices.alberta.ca/homelessness/16050.html>  
This link provides information on funding provided to the Outreach Support Services Initiative and the Addiction and Mental Health Strategy in the communities of Calgary, Edmonton, Grande Prairie, Fort McMurray, Red Deer, Lethbridge and Medicine Hat.

## 6. Seniors

- Alberta Seniors:  
<http://www.health.alberta.ca/seniors.html>  
This link provides information and links to the different programs and services to support seniors in Alberta.  
<http://www.programs.alberta.ca/Living/13772.aspx?Ns=13705+13715&N=770>  
This link provides information on financial help, health benefits, housing and rent, fraud prevention and personal safety for senior Albertans. It also provides resources for professionals to help their senior clients.
- Local Resources:
  - Find your local seniors' resources:  
<http://www.health.alberta.ca/seniors/contact-seniors.html>  
This link provides contact information for Seniors' Programs and Services; and Seniors' Information Services Offices in various regions throughout Alberta.

## 7. Social Services

- Alberta Human Services:  
<http://humanservices.alberta.ca/programs-and-services.html>  
This link provides a portal to the variety of programs and services provided by Alberta Human Services.
- Services near you:  
<http://humanservices.alberta.ca/services.html>  
This link provides a link to help you locate your local Service delivery offices, Alberta Works Centres, Child and Family Services Authorities and Employment Services.
- Alberta Food Bank Network Association:  
<http://www.afbna.ca/kitchens/>  
This links to the Alberta Food Banks website and a list of associated community kitchens in different areas and regions of Alberta.
- Programs and Services for Low-Income Earners:  
<http://www.programs.alberta.ca/Living/9498.aspx?N=770+11437>  
This link contains information about Alberta Works and other social assistance programs for low-income earners.

- Local Services:
  - Find your local food bank:  
<http://www.afbna.ca/foodbanks/>  
This link provides a list and contact details of food banks that are members of the Alberta Food Banks Network Association and partner organizations.
  - Find your local community non-profit and voluntary organizations:  
<http://www.programs.alberta.ca/Living/9293.aspx?N=770+9301>  
This link provides information on initiatives which support non-profit and voluntary organizations, grant programs and information on how to register a non-profit or charity organization.

\*\*\* To find other local community and social services in your area:

1. Find Services in Your Area:  
<http://www.programs.alberta.ca/Maps/>  
This link allows you to select your city or enter your postal code to find different types of services in and around your area.
2. Find local services through this province-wide service directory of community, health, social and government services:  
[http://www.informalberta.ca/public/common/index\\_ClearSearch.do](http://www.informalberta.ca/public/common/index_ClearSearch.do)

## Appendix C

### Health Link Alberta Calls for Central Zone

The following listing shows the town/city, number of calls and percentage where the zone was coded as Central (including calls from the Mental Health Helpline). Records where the town/city is unknown or where the caller chose not to give demographic information are excluded. The listing is sorted alphabetically by Town/City in ascending order.

#### Calls by Town/City for the Fiscal Year 2011/2012

Town/City	# of Calls	%	Town/City	# of Calls	%
Acme	191	0.4%	Castor	187	0.4%
Alder Flats	102	0.2%	Chauvin	58	0.1%
Alhambra	56	0.1%	Chipman	60	0.1%
Alix	236	0.4%	Clandonald	33	0.1%
Alliance	37	0.1%	Clive	175	0.3%
Alsike	16	0.0%	Compeer	5	0.0%
Altario	9	0.0%	Condor	85	0.2%
Amisk	27	0.1%	Consort	101	0.2%
Andrew	97	0.2%	Coronation	119	0.2%
Armena	24	0.0%	Craigmyle	21	0.0%
Bashaw	189	0.4%	Cynthia	5	0.0%
Bawlf	102	0.2%	Czar	26	0.0%
Beauvallon	18	0.0%	Daysland	107	0.2%
Benalto	58	0.1%	Delburne	241	0.5%
Bentley	279	0.5%	Delia	65	0.1%
Big Valley	120	0.2%	Denwood	49	0.1%
Birchcliff	4	0.0%	Derwent	33	0.1%
Bittern Lake	60	0.1%	Dewberry	87	0.2%
Blackfalds	1,139	2.1%	Donalda	103	0.2%
Blackfoot	112	0.2%	Dorothy	1	0.0%
Bluffton	152	0.3%	Drayton Valley	1,569	3.0%
Botha	67	0.1%	Drumheller	1,013	1.9%
Bowden	302	0.6%	East Coulee	24	0.0%
Breton	193	0.4%	Eckville	366	0.7%
Brosseau	11	0.0%	Edberg	81	0.2%
Brownfield	19	0.0%	Edgerton	87	0.2%
Bruce	4	0.0%	Elnora	85	0.2%
Bruderheim	201	0.4%	Endiang	31	0.1%
Buck Creek	19	0.0%	Erskine	102	0.2%
Buck Lake	57	0.1%	Falun	51	0.1%
Byemoor	30	0.1%	Fenn	10	0.0%
Cadogan	18	0.0%	Ferintosh	79	0.1%
Camrose	2,427	4.6%	Forestburg	123	0.2%
Carbon	113	0.2%	Gadsby	39	0.1%
Carnwood	14	0.0%	Galahad	18	0.0%
Caroline	256	0.5%	Gull Lake	2	0.0%

Health Link Alberta Calls for Central Zone (Continued)

Town/City	# of Calls	%
Gwynne	51	0.1%
Hairy Hill	32	0.1%
Half Moon Bay	6	0.0%
Halkirk	30	0.1%
Hanna	340	0.6%
Hardisty	99	0.2%
Hay Lakes	179	0.3%
Hayter	8	0.0%
Heisler	31	0.1%
Hilliard	11	0.0%
Hobbema	1,235	2.3%
Holden	80	0.2%
Hughenden	59	0.1%
Huxley	38	0.1%
Innisfail	1,183	2.2%
Innisfree	95	0.2%
Irma	117	0.2%
Islay	47	0.1%
James River Bridge	21	0.0%
Jarvis Bay	3	0.0%
Kelsey	13	0.0%
Killam	136	0.3%
Kingman	132	0.2%
Kinsella	17	0.0%
Kirriemuir	4	0.0%
Kitscoty	221	0.4%
Lacombe	1,880	3.5%
Lamont	246	0.5%
Lavoy	64	0.1%
Leslieville	177	0.3%
Lindale	39	0.1%
Linden	219	0.4%
Lloydminster	1,723	3.2%
Lodgepole	32	0.1%
Lougheed	42	0.1%
Lousana	52	0.1%
Ma-Me-O Beach	65	0.1%
Mannville	150	0.3%
Markerville	43	0.1%
Marwayne	118	0.2%
McLaughlin	11	0.0%
Meeting Creek	28	0.1%
Menaik	2	0.0%
Metiskow	2	0.0%
Millet	620	1.2%

Town/City	# of Calls	%
Minburn	47	0.1%
Mirror	85	0.2%
Monitor	5	0.0%
Morrin	49	0.1%
Mulhurst Bay	46	0.1%
Mundare	163	0.3%
Munson	29	0.1%
Musidora	12	0.0%
Myrnam	80	0.2%
Nacmine	2	0.0%
Nevis	2	0.0%
New Norway	82	0.2%
Nordegg	19	0.0%
Norglenwold	17	0.0%
Ohaton	41	0.1%
Olds	1,250	2.4%
Paradise Valley	97	0.2%
Penhold	483	0.9%
Pigeon Lake 138	1	0.0%
Pine Lake	49	0.1%
Ponoka	1,030	1.9%
Provost	228	0.4%
Ranfurlly	25	0.0%
Red Deer	13,965	26.3%
Red Deer County	350	0.7%
Red Willow	5	0.0%
Rimbey	627	1.2%
Rivercourse	21	0.0%
Rochon Sands	2	0.0%
Rocky Mountain House	1,942	3.7%
Rocky Rapids	107	0.2%
Rosalind	36	0.1%
Rosedale Station	44	0.1%
Rosedale Valley	15	0.0%
Round Hill	33	0.1%
Rowley	3	0.0%
Rumsey	21	0.0%
Ryley	122	0.2%
Sedgewick	120	0.2%
Springbrook	190	0.4%
Spruce View	32	0.1%
St Michael	25	0.0%
Star	10	0.0%
Stauffer	20	0.0%
Stettler	1,133	2.1%

Health Link Alberta Calls for Central Zone (Continued)

Town/City	# of Calls	%
Streamstown	7	0.0%
Strome	38	0.1%
Sundre	670	1.3%
Sunnynook	1	0.0%
Swalwell	23	0.0%
Sylvan Lake	1,711	3.2%
Tees	68	0.1%
Three Hills	484	0.9%
Tofield	696	1.3%
Torrington	77	0.1%
Trochu	165	0.3%
Tulliby Lake	6	0.0%

Town/City	# of Calls	%
Two Hills	143	0.3%
Vegreville	968	1.8%
Vermilion	508	1.0%
Veteran	74	0.1%
Viking	116	0.2%
Wainwright	560	1.1%
Westerose	169	0.3%
Wetaskiwin	1,976	3.7%
Willingdon	68	0.1%
Wimborne	25	0.0%
Winfield	117	0.2%
Wostok	1	0.0%
<b>Total</b>	<b>53,037</b>	<b>100.0%</b>

**Source:**

*Health Link Alberta*



## Select Health Services

## Appendix D

### Local Geographic Area: Sundre

#### Active Treatment Hospitals

Designated Service Type	Name	Address
Small Rural Community Hospital	Sundre Hospital and Care Centre	709 1 St NE, Sundre, T0M1X0

**Source:**

*Alberta Health, November 2012*

**Note:**

*Active Treatment Hospitals refer to Referral Tertiary Care Hospitals, Tertiary Pediatric Hospitals, Cancer Treatment Hospitals, Pediatric Hospitals, Psychiatric Facilities, Rehabilitation Hospitals, Regional & Urban Secondary Level Care Hospitals, Rural Community Hospitals, Small Rural Community Hospitals and Designated Ambulatory Care Hospitals*

#### Community Ambulatory Care Centres

There are no Community Ambulatory Care Centres in this Local Geographic Area

**Source:**

*Alberta Health, November 2012*

**Note:**

*Community Ambulatory Care Centres refer to Advanced Ambulatory Care Clinics, Urgent Care Centres, Basic Community Ambulatory Care Clinics and Family Care Clinics*

#### Diagnostic Imaging Centres

Name	Address
Sundre Hospital & Care Centre	Imaging Department 709 1st St NE, Sundre, T0M1X0

**Source:**

*Alberta Health, November 2012*

#### Community Pharmacies

Name	Address
Pharmasave #337	557 Main Ave W, Sundre, T0M1X0
Sundre Community Drug Mart	403 Main Ave West, Sundre, T0M1X0

**Source:**

*Alberta Health, November 2012*

### Medical Laboratories

Name	Address
Sundre Hospital & Care Centre	Laboratory 709 1st St NE, Sundre, T0M1X0

**Source:**

*Alberta Health, November 2012*

### Family Physician Offices

Name	Address
Greenwood Family Phys Clinic	709 1 Street NE, Sundre, T0M1X0
Greenwood Family Walk-in Cln	557 Main Ave W Bay 7, Sundre, T0M1X0

**Sources:**

*Alberta Health Care Insurance Plan (AHCIP) Data, Alberta Health, November 2012  
College of Physicians and Surgeons of Alberta, April 2013*

**Note:**

*The Family Physician Office information is based on available Alberta Health data and College of Physicians and Surgeons of Alberta (CPSA) information. The most current contact information for physicians can be found on the CPSA website at [www.cpsa.ab.ca](http://www.cpsa.ab.ca)*