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7.11 Hospitalization Rates for Ambulatory Care Sensitive (ACS) Conditions

Definition: the number of inpatient **hospitalizations for ambulatory care sensitive** (**ACS**) **conditions** among residents aged 0 to 74 per 1,000 residents aged 0 to 74 in a given year. ACS conditions are a group of 17 diseases and diagnoses, including asthma, angina, gastroenteritis, and congestive heart failure. These were created by Billings and colleagues (Billings et al., 1993; Billings, Anderson, & Newman, 1996). Low rates of hospitalizations for ACS conditions can be used as indicators of access to good quality primary care. For all ACS conditions except congenital syphilis, the condition must be coded as the most responsible diagnosis. Rates are shown for 2006/07 and 2011/12 and age– and sex–adjusted to the Manitoba population aged 0 to 74.
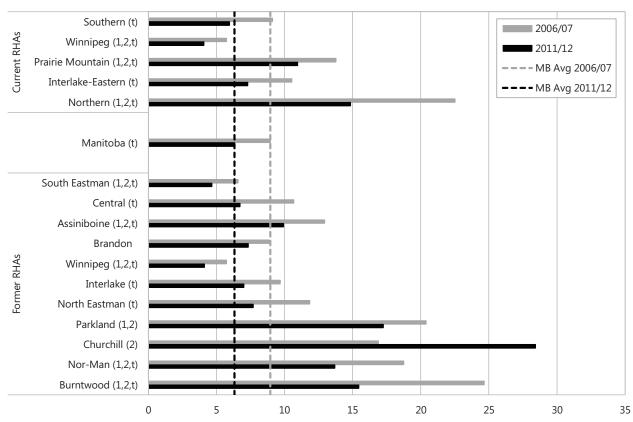
Key Findings

- The rate of hospitalization for ACS conditions decreased over time from 8.96 to 6.33 hospitalizations per 1,000 residents per year. Significant decreases were seen in all regions.
- Rates were strongly related to PMR at the region, district, and NC levels; but the relationships were not linear.
- Residents of Northern region had the highest rates, but they also had the largest decrease over time. Winnipeg residents had the lowest rates.
- Rates varied dramatically across districts of rural regions from one to over 45 ACS hospitalizations per 1,000 residents per year.
- There was also substantial variation across NCs within Winnipeg.
- Rates were very strongly related to income in urban and rural areas in both time periods: rates for residents of lower income areas were more than triple those for residents of higher income areas (Appendix 2).

Comparison to Other Findings

- The results shown in this report are consistent with and extend the findings of the 2009 Atlas (Fransoo et al., 2009), reflecting the continuing decrease in rates of hospitalization for ACS conditions.

Figure 7.11.1: Hospitalization Rate for Ambulatory Care Sensitive Conditions by RHA, 2006/07 and 2011/12
Age- and sex-adjusted rate per 1,000 residents aged 0-74

1   indicates area's rate was statistically different from Manitoba average in first time period
2   indicates area's rate was statistically different from Manitoba average in second time period
t   indicates change over time was statistically significant for that area
s   indicates data suppressed due to small numbers

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Figure 7.11.2: Hospitalization Rate for Ambulatory Care Sensitive Conditions by District, 2006/07 and 2011/12

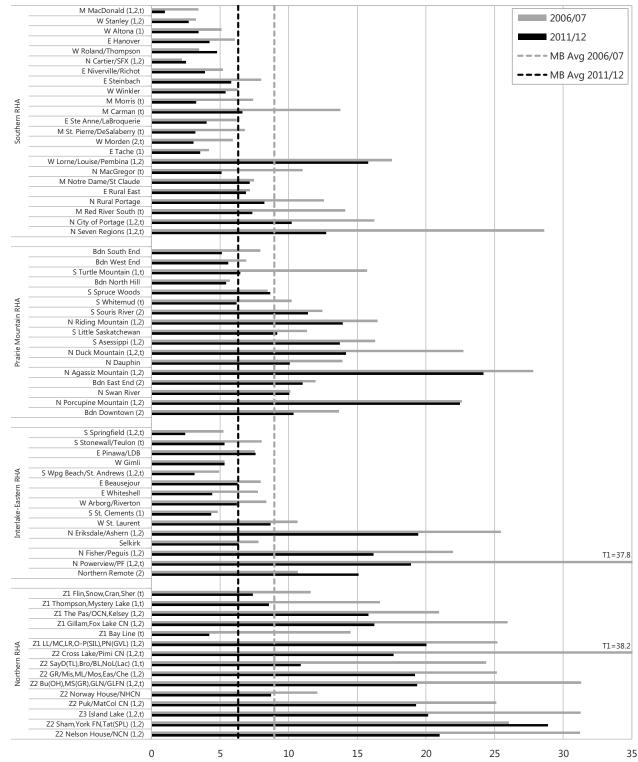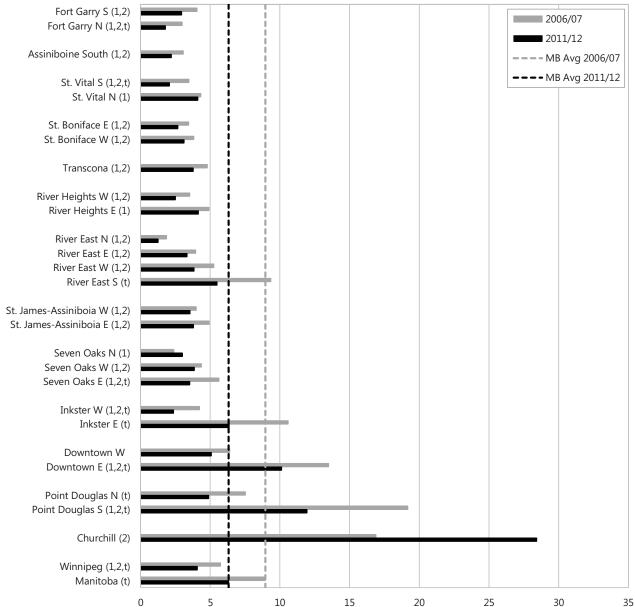Age- and sex-adjusted rate per 1,000 residents aged 0-74

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Figure 7.11.3: Hospitalization Rate for Ambulatory Care Sensitive Conditions by Winnipeg NC, 2006/07 and 2011/12

Age- and sex-adjusted rate per 1,000 residents aged 0-74

Appendix Table 2.39: Hospitalization Rate for Ambulatory Care Sensitive Conditions Among Residents Aged 0-74

Regional Health Authority	Number observed 2006/07	CRUDE rate per 1,000 2006/07	Number observed 2011/12	CRUDE rate per 1,000 2011/12
Current RHAs				
Southern	1,427	9.25	1,052	6.16
Winnipeg	3,495	5.65	2,946	4.42
Prairie Mountain	2,155	15.0	1,856	12.4
Interlake–Eastern	1,302	11.9	1,043	9.12
Northern	1,340	19.3	979	13.4
Manitoba	9,836	8.96	8,016	6.81
Former RHAs				
South Eastman	398	6.74	337	4.98
Central	1,029	10.8	715	6.94
Assiniboine	931	15.3	763	12.2
Brandon	406	8.85	379	7.56
Winnipeg	3,480	5.63	2,919	4.39
Interlake	825	11.5	680	9.18
North Eastman	477	12.5	363	9.01
Parkland	818	21.9	714	19.0
Churchill	15.0	16.3	27.0	29.0
Nor-Man	416	17.8	346	14.3
Burntwood	924	20.1	633	13.0

Winnipeg Neighbourhood Cluster	Number observed 2006/07	CRUDE rate per 1,000 2006/07	Number observed 2011/12	CRUDE rate per 1,000 2011/12
Fort Garry S	142	4.18	128	3.18
Fort Garry N	87.0	3.09	59.0	1.97
Assiniboine South	111	3.28	94.0	2.80
St. Vital S	122	3.65	89.0	2.43
St. Vital N	120	5.00	128	5.16
St. Boniface E	130	3.72	119	3.03
St. Boniface W	59.0	4.38	51.0	3.72
Transcona	159	5.01	138	4.07
River Heights W	125	3.90	95.0	2.89
River Heights E	98.0	5.33	94.0	4.91
River East N	21.0	2.13	16.0	1.51
River East E	111	4.11	106	3.82
River East W	214	6.38	165	4.82
River East S	150	8.99	97.0	5.54
St. James-Assiniboia W	145	4.96	137	4.65
St. James-Assiniboia E	131	5.60	108	4.51
Seven Oaks N	11.0	2.70	17.0	3.64
Seven Oaks W	98.0	4.48	112	4.34
Seven Oaks E	192	6.23	151	4.30
Inkster W	67.0	3.93	44.0	2.30
Inkster E	143	10.4	93.0	6.36
Downtown W	211	6.04	201	5.04
Downtown E	403	12.6	351	10.2
Point Douglas N	187	7.34	142	5.05
Point Douglas S	243	17.6	184	11.6
Churchill	15.0	16.3	27.0	29.0

Income Quintile	ADJUSTED rate per 1,000 2006/07	ADJUSTED rate per 1,000 2011/12
Income Unknown	24.9	19.3
Lowest Rural R1	21.7	17.4
R2	15.1	10.1
R3	12.7	8.67
R4	9.78	6.09
Highest Rural R5	6.82	4.50
Lowest Urban U1	11.3	8.27
U2	6.27	4.50
U3	4.99	3.66
U4	3.80	2.62
Highest Urban U5	2.53	2.09
linear trend rural T1	<.0001	
linear trend rural T2	<.0001	
compare rural trends over time	0.1671	
linear trend urban T1	<.0001	
linear trend urban T2	<.0001	
compare urban trends over time	0.5806	

bold trend=significant

blank cells = suppressed