8.7 Dental Extractions Among Young Children

Definition: the number of dental extractions performed on residents aged 0 to 5 per 1,000 residents aged 0 to 5 years. Dental extraction surgeries were defined by hospitalizations with ICD–9–CM procedure codes 23.01, 23.09, 23.11, and 23.19 or CCI codes 1.FE.57 and 1.FE.89. Out–of–province procedures were excluded. Average annual crude rates were calculated for 2002/03–2006/07 and 2007/08–2011/12.

Key Findings

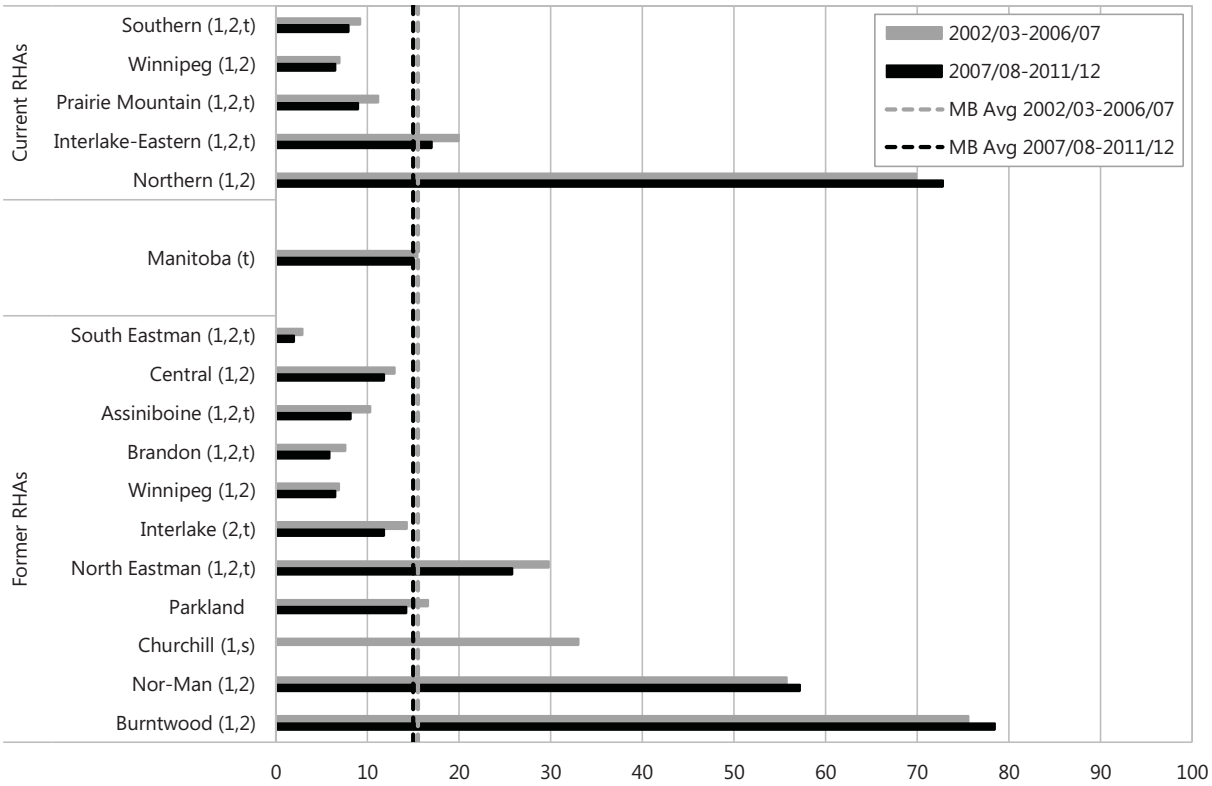
- The overall rate of dental extraction surgeries decreased slightly but significantly over time; however, the rates and changes varied dramatically by area.
- Rates decreased somewhat in most regions (though not all were statistically significant), but increased (non–significantly) in Northern region.
- Rates were related to PMR, but were much higher in Northern than any other region.
- There was also extreme variation across districts of rural regions from under two to over 100, making this the indicator with the most variation in this report.
- Rates also varied considerably across NCs within Winnipeg.
- In both urban and rural areas, there were significant relationships with income in both time periods: residents of lower income areas had dramatically higher rates (Appendix 2). Rural rates were much higher than urban rates.

Comparison to Other Findings

- The results shown here are consistent with those shown in MCHP's report on inequalities in health in Manitoba (Martens et al., 2010b).

Figure 8.7.1: Dental Extraction Surgery Rate by RHA, 2002/03-2006/07 and 2007/08-2011/12

Crude average annual rate per 1,000 residents under age 6



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

Figure 8.7.2: Dental Extraction Surgery Rate by District, 2002/03-2006/07 and 2007/08-2011/12

Crude average annual rate per 1,000 residents under age 6

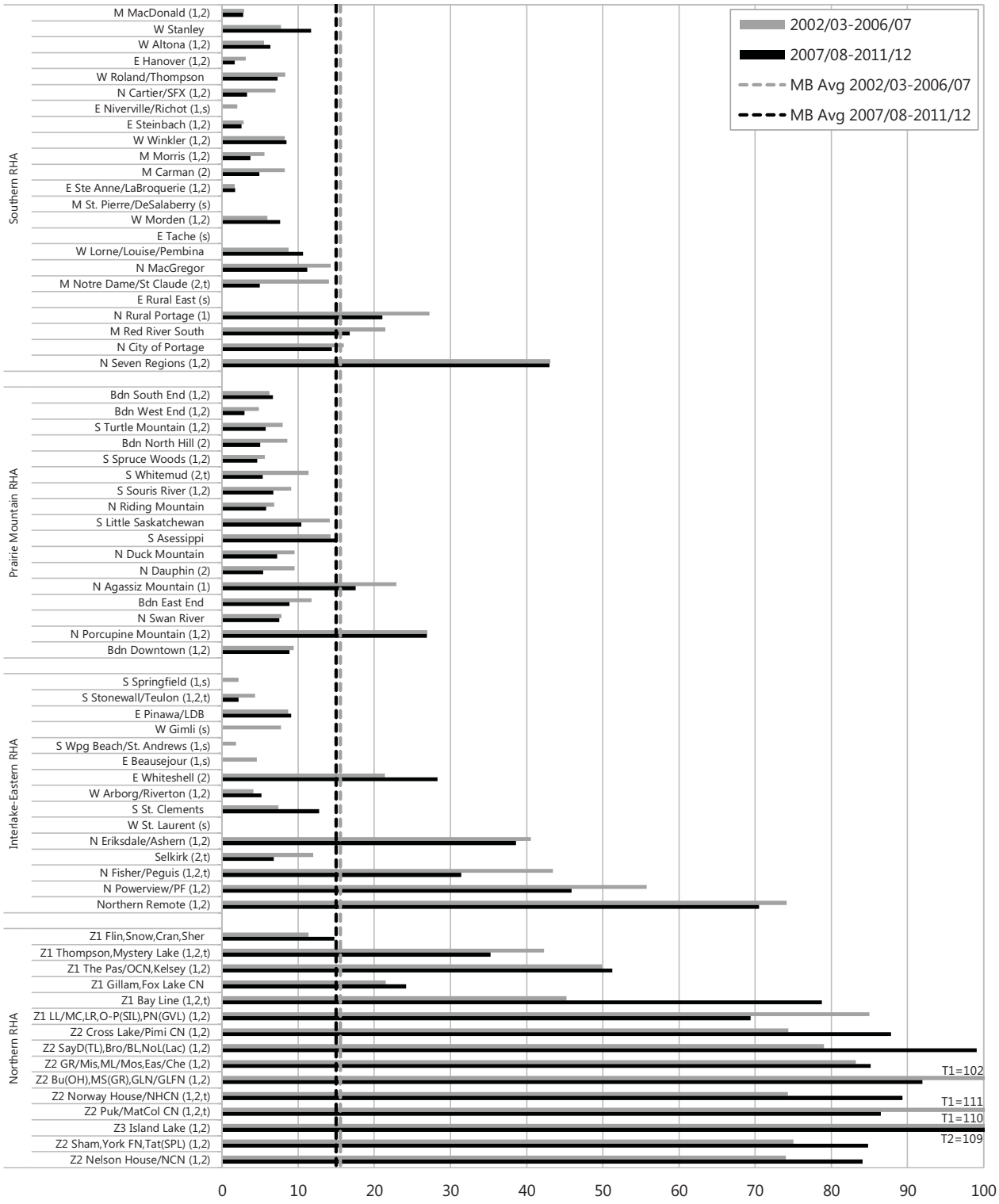
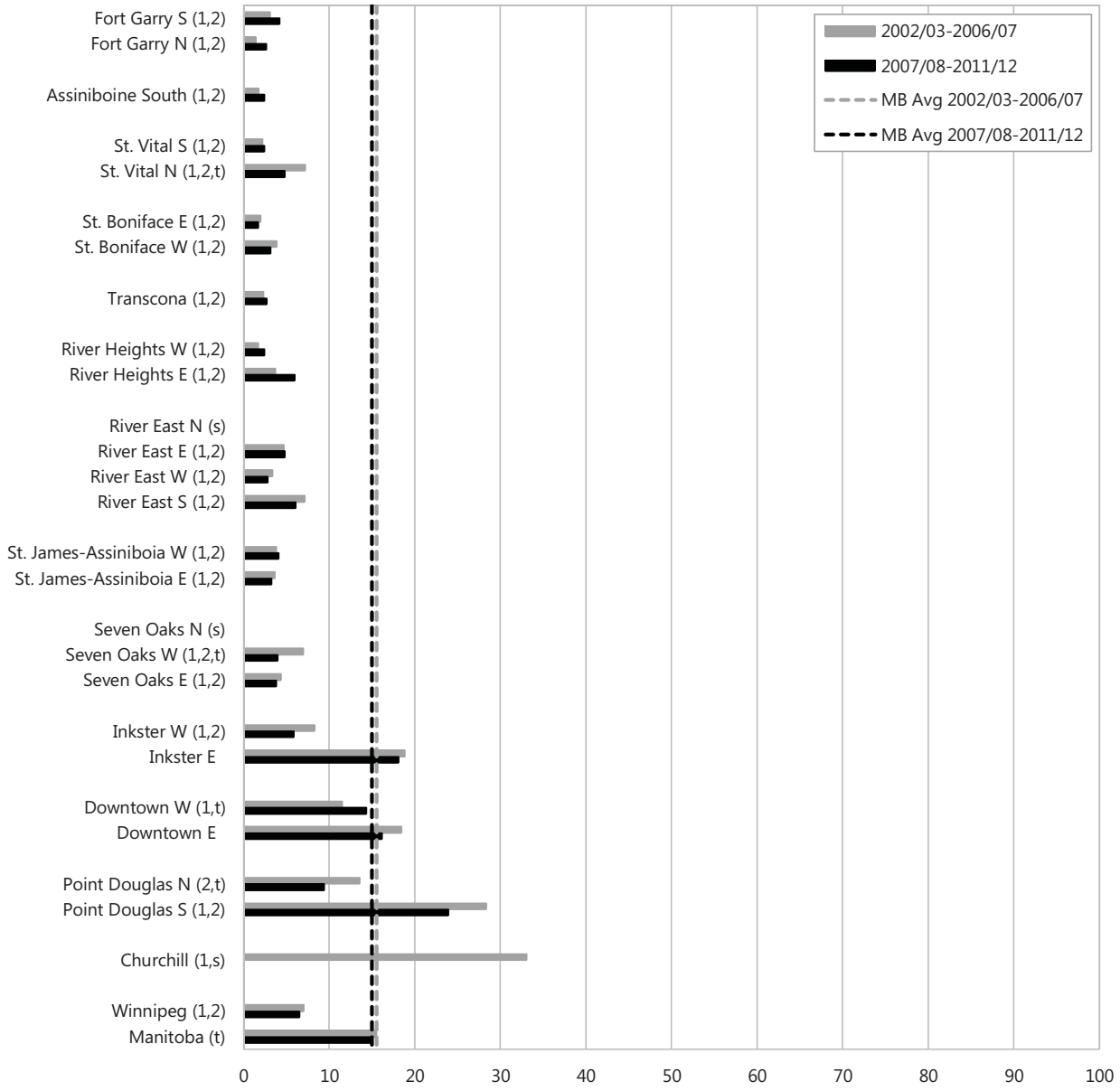


Figure 8.7.3: Dental Extraction Surgery Rate by Winnipeg NC, 2002/03-2006/07 and 2007/08-2011/12

Crude average annual rate per 1,000 residents under age 6



Appendix Table 2.46: Dental Extraction Surgery Among Residents Under Age 6

Regional Health Authority	Number observed per year	CRUDE rate per 1,000	Number observed per year	CRUDE rate per 1,000
	2002/03-2006/07		2007/08-2011/12	
Current RHAs				
Southern	131	9.28	129	8.00
Winnipeg	312	7.03	304	6.56
Prairie Mountain	124	11.2	109	9.03
Interlake-Eastern	159	20.0	141	17.1
Northern	613	69.9	707	72.8
Manitoba	1,339	15.5	1,392	15.0
Former RHAs				
South Eastman	15.6	2.98	13.0	2.05
Central	115	13.0	116	11.8
Assiniboine	45.4	10.4	38.8	8.24
Brandon	27.6	7.63	24.8	5.91
Winnipeg	308	6.97	303	6.55
Interlake	72.4	14.3	61.4	11.8
North Eastman	86.8	29.9	79.6	25.8
Parkland	51.0	16.7	45.8	14.3
Churchill	3.40	33.1		
Nor-Man	142	55.8	149	57.2
Burntwood	472	75.6	558	78.5

blank cells = suppressed

Winnipeg Neighbourhood Cluster	Number observed per year	CRUDE rate per 1,000	Number observed per year	CRUDE rate per 1,000
	2002/03-2006/07		2007/08-2011/12	
Fort Garry S	7.40	3.10	10.6	4.20
Fort Garry N	2.80	1.44	5.00	2.65
Assiniboine South	3.60	1.80	4.80	2.47
St. Vital S	4.80	2.25	5.80	2.43
St. Vital N	12.4	7.21	8.20	4.83
St. Boniface E	5.00	1.98	4.80	1.70
St. Boniface W	3.20	3.86	2.80	3.15
Transcona	5.40	2.33	6.40	2.73
River Heights W	3.60	1.70	5.00	2.43
River Heights E	4.00	3.72	6.40	5.98
River East N				
River East E	9.40	4.72	9.60	4.84
River East W	7.00	3.40	6.00	2.84
River East S	10.4	7.17	9.00	6.08
St. James-Assiniboia W	6.80	3.86	7.40	4.14
St. James-Assiniboia E	5.80	3.67	5.00	3.30
Seven Oaks N			0.00	0.00
Seven Oaks W	10.8	6.98	7.20	4.01
Seven Oaks E	8.60	4.40	8.80	3.85
Inkster W	10.4	8.34	7.60	5.90
Inkster E	24.6	18.9	25.2	18.1
Downtown W	33.2	11.5	45.2	14.4
Downtown E	53.8	18.4	47.4	16.2
Point Douglas N	30.0	13.6	22.2	9.41
Point Douglas S	43.6	28.4	42.2	23.9
Churchill	3.40	33.1		

Income Quintile	CRUDE rate per 1,000	
	2002/03-2006/07	2007/08-2011/12
Income Unknown	19.0	21.0
Lowest Rural R1	48.9	48.6
R2	25.2	27.5
R3	22.9	20.9
R4	12.6	8.87
Highest Rural R5	10.0	8.96
Lowest Urban U1	16.2	14.5
U2	6.91	6.27
U3	4.39	4.52
U4	2.83	2.26
Highest Urban U5	1.45	1.57
linear trend rural T1		**<.0001**
linear trend rural T2		**<.0001**
compare rural trends over time		**0.0005**
linear trend urban T1		**<.0001**
linear trend urban T2		**<.0001**
compare urban trends over time		0.5412

bold trend = significant