



Indicator: Dental Extractions Among Young Children (Under Age 6)

DEFINITION: The number of dental extractions performed on residents under age 6 years. Dental extractions are referred to as a hospital-based procedure for removing teeth of young children with severe tooth decay and requiring the use of anesthesia beyond levels available in a dentist's office (i.e., general anesthesia). Out-of-province procedures were excluded.

NUMERATOR: Number of dental extractions performed on Winnipeg Regional Health Authority (the Region) residents under age 6.

DENOMINATOR: The Region's residents under age 6 as of December 31 of each year (2002–2011).

CALCULATION: (Number of dental extractions performed on the Region's residents under 6 years of age / Number of the Region's residents under 6 years of age)×1,000. Crude annual proportions were calculated for 2002/03–2006/07 and 2007/08–2011/12.

DATA SOURCE: Manitoba Centre for Health Policy (MCHP), 2013

KEY FINDINGS:

- In 2002/03–2006/07 and 2007/08–2011/12, 7.0 and 6.6 dental extractions per 1,000 children under 6 years, respectively, were performed in the Region; these rates are much lower than the averages of other regions and the province.
- There was a substantial variation across the communities in the Region, with communities in the Region central areas (i.e., Inkster West, Point Douglas South, Downtown West, and Downtown East) having the highest number of dental extractions per 1,000 children.
- Children living in lower income communities had more dental extractions than those living in higher income communities: During 2007/08–2011/12, the number of dental extraction in the lowest income CA (Point Douglas South) was 6.1 times that of the highest income CA (River East North); and the number of dental extraction for those in the lowest income quintile was 9.1 times that of those in the highest income quintile.

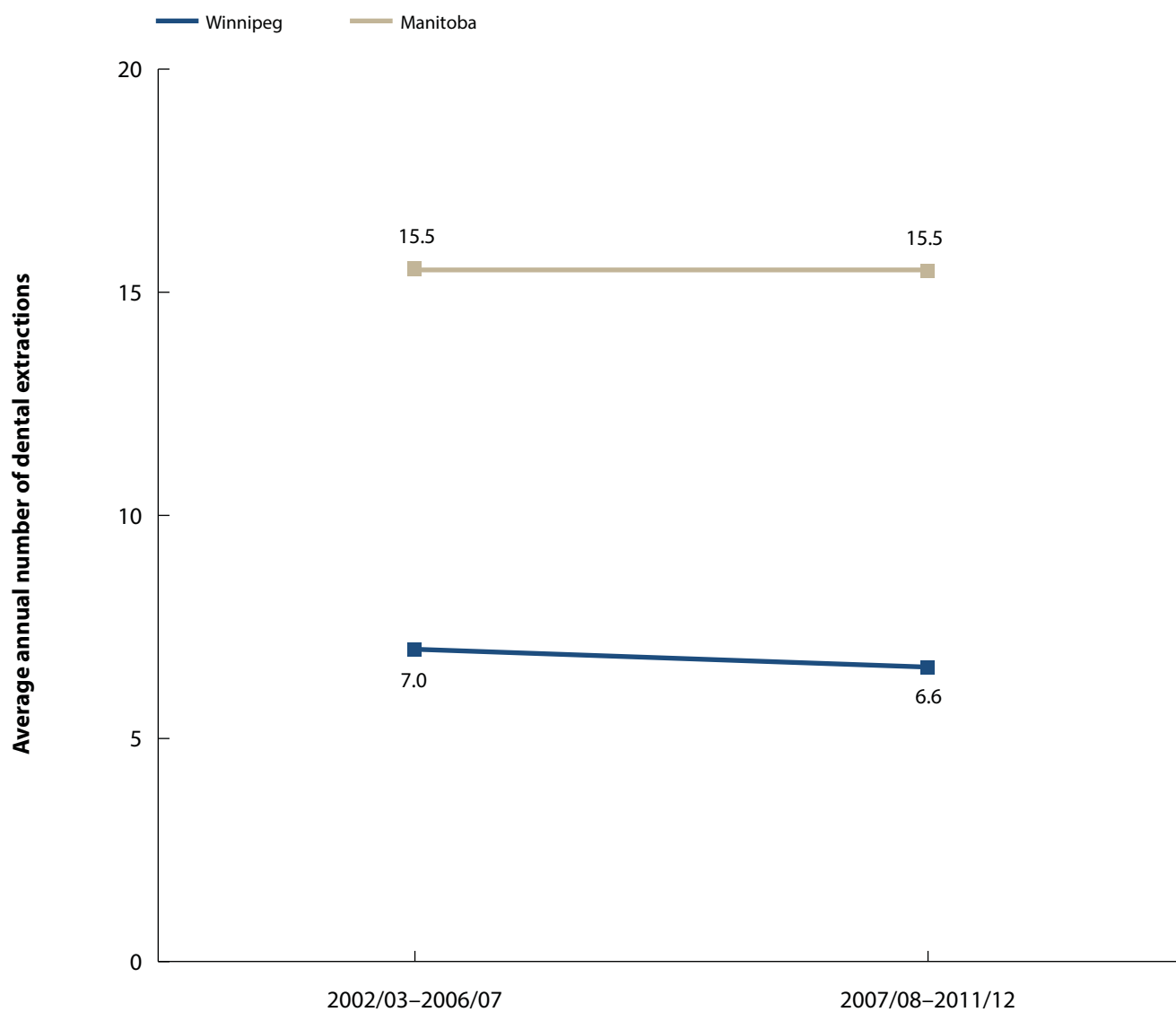
WHAT DO THE FINDINGS MEAN TO COMMUNITIES?

- This indicator measures the treatment prevalence of severe tooth decay among young children. The lower number of dental extractions (than the provincial level) in the Region indicates: a) a smaller proportion of children in the Region had severe dental decay; or b) less access to dental extraction surgeries in the Region.

Figure A5.6.1.a1

Trends in Dental Extractions Among Young Children in Winnipeg & Manitoba

Crude average annual dental extraction surgeries per 1,000 children under age 6, 2002/03–2011/12

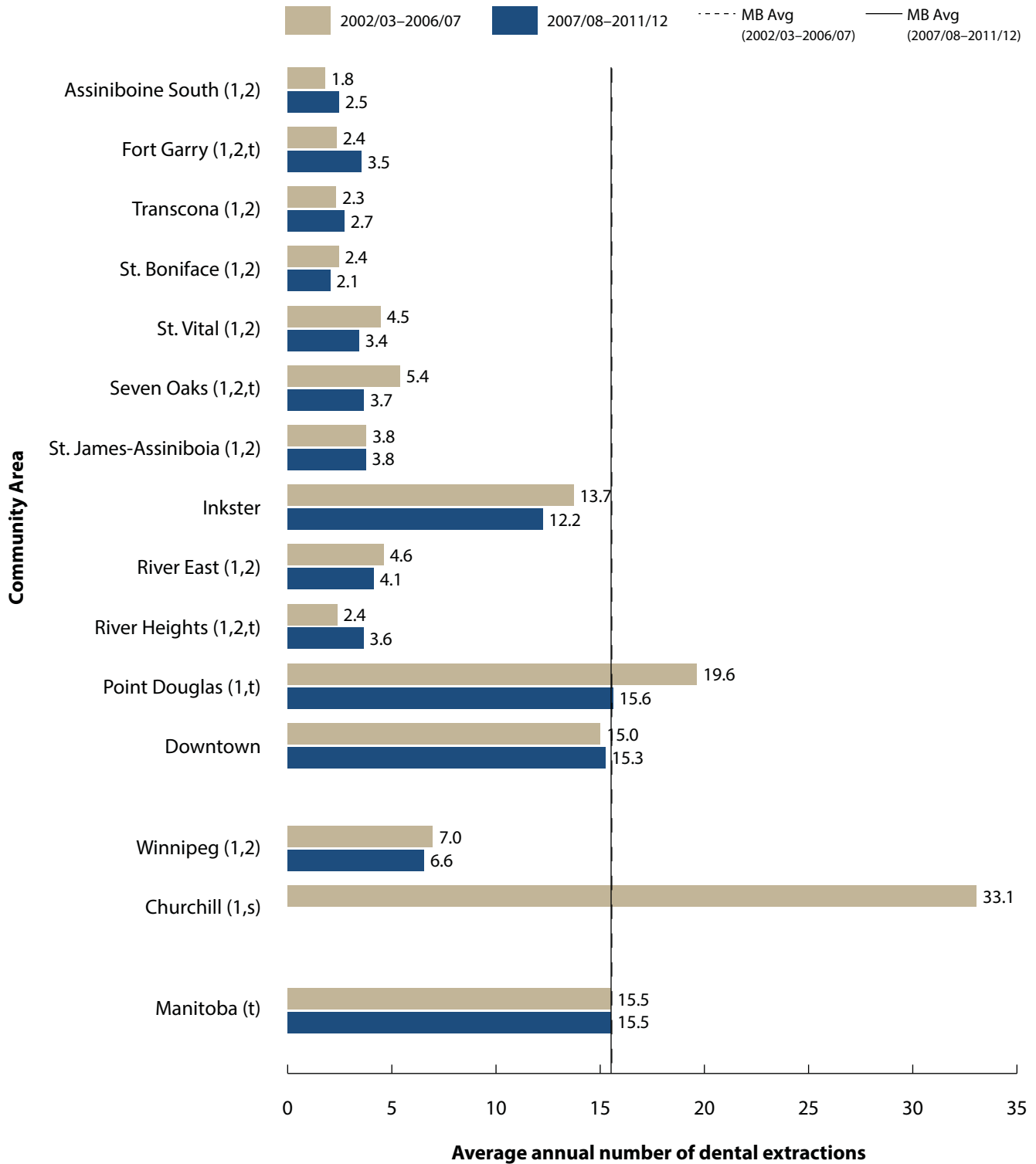


Source: Manitoba Centre for Health Policy, 2013

Figure A5.6.1.a2

Dental Extractions Among Young Children by Winnipeg Community Area

Crude average annual dental extraction surgeries per 1,000 children under age 6, 2002/03–2006/07 & 2007/08–2011/12



Source: Manitoba Center for Health Policy, 2013

'1' indicates that in the first time period, the area's rate was statistically different from the MB average at that time

'2' indicates that in the second time period, the area's rate was statistically different from the MB average at that time

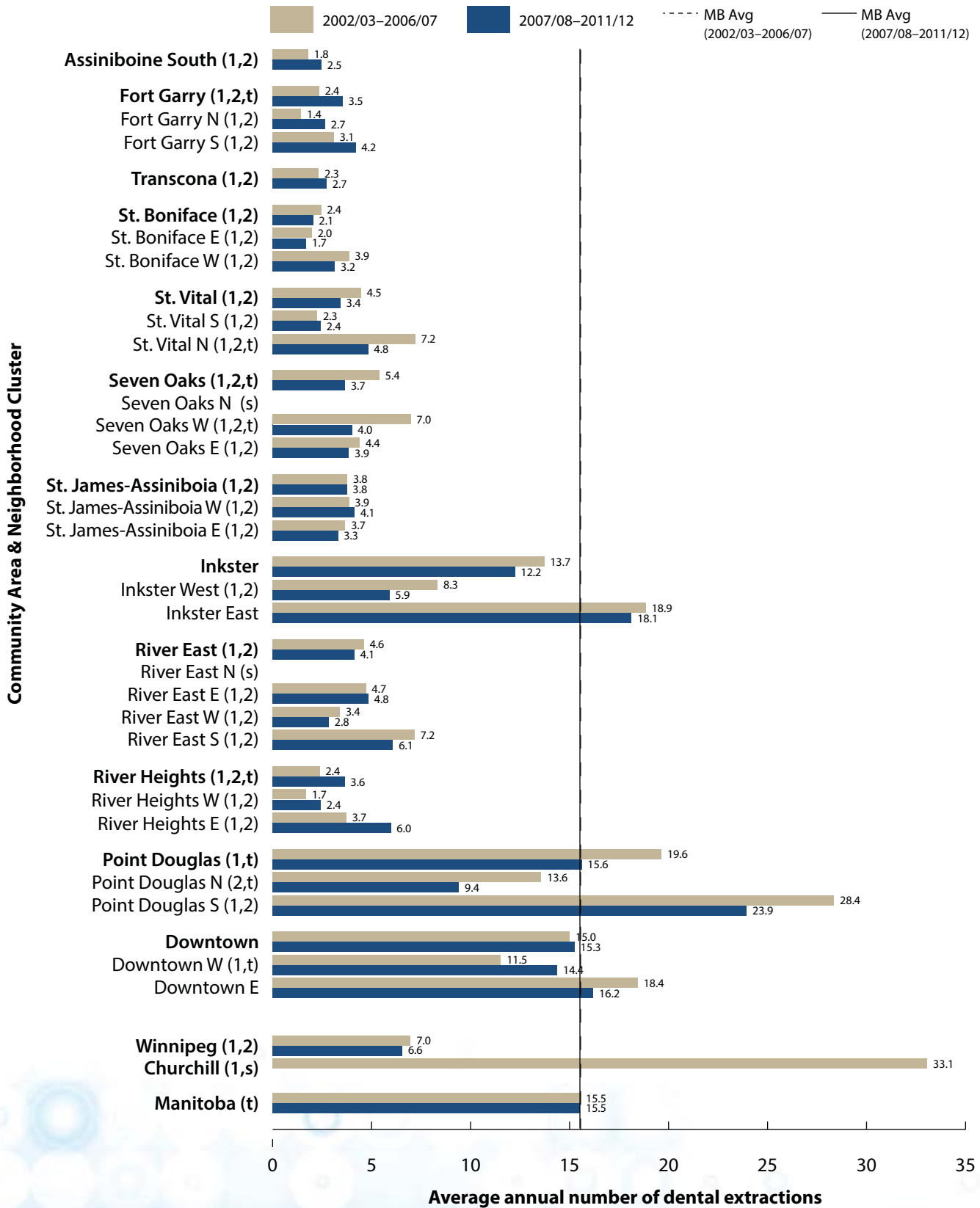
't' indicates for that area, the change in rates from Time 1 to Time 2 was significant

's' indicates that the results were suppressed to ensure confidentiality

Figure A5.6.1.a3

Dental Extractions Among Young Children by Winnipeg Community Area & Neighborhood Cluster

Crude average annual dental extraction surgeries per 1,000 children under age 6, 2002/03–2006/07 & 2007/08–2011/12



Source: Manitoba Center for Health Policy, 2013

'1' indicates that in the first time period, the area's rate was statistically different from the MB average at that time

'2' indicates that in the second time period, the area's rate was statistically different from the MB average at that time

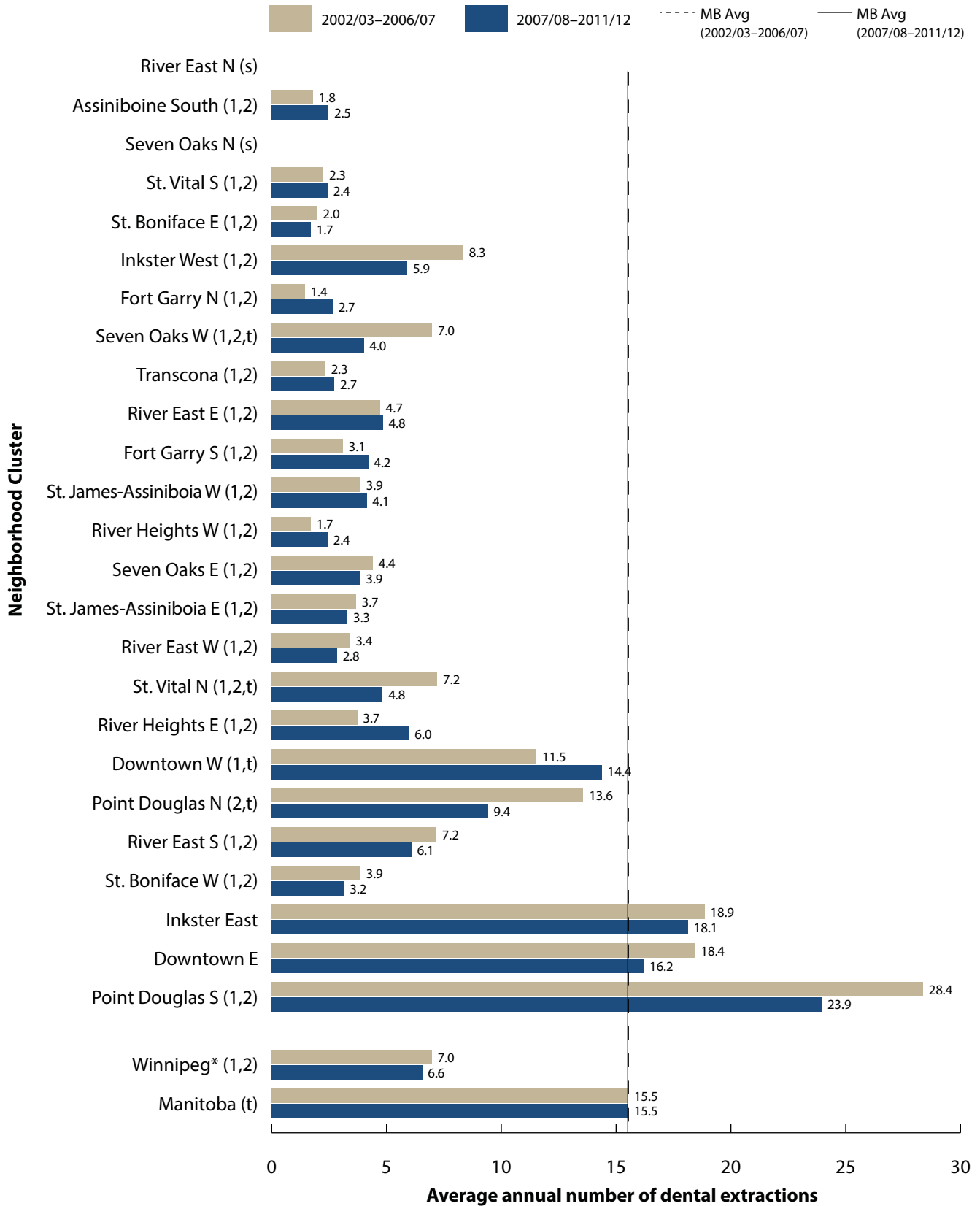
't' indicates that for that area, the change in rates from Time 1 to Time 2 was significant

's' indicates that the results were suppressed to ensure confidentiality

Figure A5.6.1.a4

Dental Extractions Among Young Children by Winnipeg Neighborhood Cluster

Crude average annual dental extraction surgeries per 1,000 children under age 6, 2002/03–2006/07 & 2007/08–2011/12



Source: Manitoba Center for Health Policy, 2013

'1' indicates that in the first time period, the area's rate was statistically different from the MB average at that time

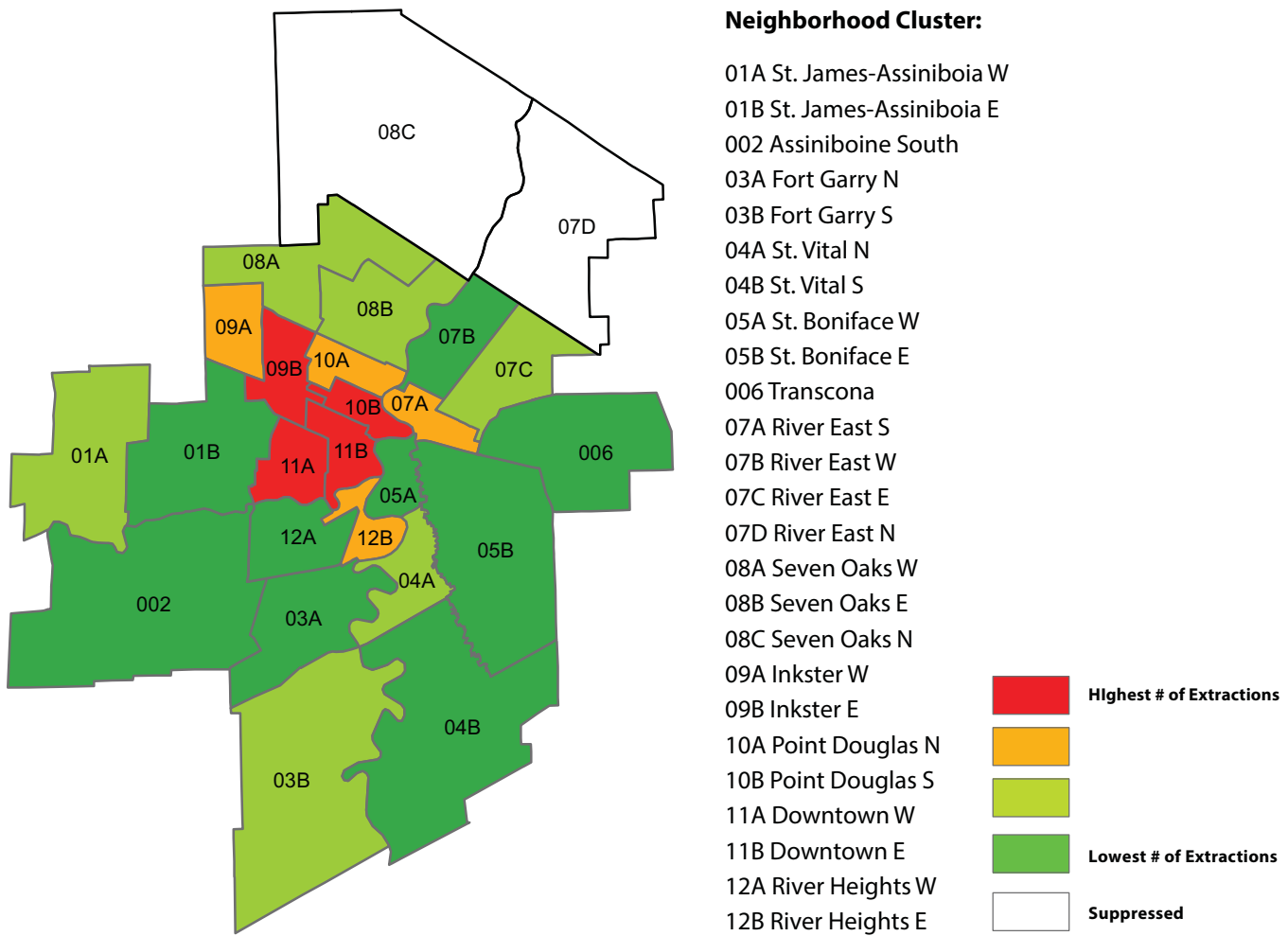
'2' indicates that in the second time period, the area's rate was statistically different from the MB average at that time

't' indicates for that area, the change in rates from Time 1 to Time 2 was significant

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Dental Extractions Among Young Children by Winnipeg Neighborhood Cluster

Crude average annual dental extraction surgeries per 1,000 residents under age 6, 2007/08–2011/12



Source: Manitoba Centre for Health Policy, 2013

Table A5.6.1.a1

Health Inequality in Dental Extractions, by Median Household Income & Urban Income Quintile

Health Inequality Measures	Time Period	
	2002/032–006/07 # of dental extraction surgeries per 1,000 children under age 6 years	2007/08–2011/12 # of dental extraction surgeries per 1,000 children under age 6 years
Number of Dental Extractions By <i>Community Area (CA)</i> <i>median household income</i>		
Highest income CA (Assiniboine South)	1.8	2.5
Lowest income CA (Downtown)	15.0	15.3
Absolute difference (Lowest income CA – Highest income CA)	13.2	12.8
Ratio (Lowest income CA / Highest income CA)	8.33	6.12
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Number of Dental Extractions By <i>Urban Income Quintile</i>	2002/03–2006/07 # of dental extraction surgeries per 1,000 children under age 6 years	2007/08–2011/12 # of dental extraction surgeries per 1,000 children under age 6 years
Highest Urban Income Quintile (U5)	1.4	1.6
U4	2.8	2.3
U3	4.4	4.5
U2	6.9	6.3
Lowest Urban Income Quintile (U1)	16.2	14.5
Absolute difference (U1-U5)	14.8	12.9
Ratio (U1/U5)	11.6	9.06

Source: Manitoba Centre for Health Policy, 2013