

**Appendix 4 (as supplied by the authors): Overall rates, rate ratios, rate differences, % change in rate ratio, % change in rate difference and area-level concentration curve for each health outcome used in the Saskatoon health inequities analytic approach**

Hospitalizations Data												
	Rate per 1000			DRR			DRD			ALCC		
	1995	2011	% Change	1995	2011	% change	1995	2011	% Change	1995	2011	% Change
Diabetes	1.13	1.16	↑3%	1.74	2.75	↑58%*	0.60	1.31	↑116%	0.18	0.19	↑8%
Heart Disease	5.56	2.37	↓57%*	1.41	1.75	↑24%*	1.64	1.43	↓13%	0.15	0.16	↑10%
Stroke	2.41	1.19	↓51%*	1.67	2.03	↑21%*	1.24	0.76	↓39%	0.23	0.16	↓28%*
COPD	2.82	1.71	↓39%*	2.59	3.42	↑32%*	2.61	2.19	↓16%	0.33	0.28	↓15%*
Cancer	8.03	4.66	↓42%*	1.13	1.18	↓4%	0.92	0.84	↓9%	0.13	0.04	↓68%*
Injury	6.91	5.79	↓16%	1.82	2.35	↑29%*	4.35	5.11	↑18%	0.17	0.20	↑14%
Mental Disorders	6.17	3.48	↓44%*	2.9	2.44	↓16%	6.35	3.28	↓48%	0.20	0.18	↓10%
Self-Harm	0.84	0.39	↓54%*	5.58	3.58	↓36%	1.28	0.48	↓63%	0.28	0.23	↓17%*

  

Physician Billing Data												
	Rate per 1000			DRR			DRD			ALCC		
	1996	2009	% Change	1996	2009	% Change	1996	2009	% Change	1996	2009	% Change
Diabetes	5.21	11.2	↑115%*	8.28	9.91	↑20%	8.58	22.7	↑165%	0.40	0.39	↓4%
Heart Disease	5.32	5.96	↑12%	5.02	7.29	↑45%*	6.93	11.2	↑62%	0.36	0.37	↑1%
Stroke	1.81	1.19	↓34%*	4.85	6.16	↑27%	2.60	2.26	↓13%	0.42	0.38	↓9%
COPD	26.7	20.91	↓22%	6.23	9.26	↑49%*	40.4	38.1	↑6%	0.32	0.37	↑13%
Cancer	5.66	7.54	↑33%	3.91	5.56	↑42%	6.13	11.1	↑81%	0.25	0.28	↑13%
Injury	62.4	44.5	↓29%*	5.23	7.41	↑42%*	85.5	71.4	↓17%	0.30	0.33	↑12%
Mental Disorders	31.9	42.0	↑32%*	6.81	9.05	↑33%*	51.9	81.4	↑57%	0.35	0.38	↑10%

  

Communicable Diseases Data												
	Rate per 1000			DRR			DRD			ALCC		
	2004	2010	% Change	2004	2010	% Change	2004	2010	% Change	2004	2010	% Change
Hepatitis C	0.81	0.37	↓54%*	7.84	11.1	↑42%	1.94	1.54	↓21%	0.43	0.51	↑20%*
Gonorrhoea	0.46	0.40	↓13%	8.40	4.79	↓43%	0.93	0.73	↓21%	0.40	0.47	↑19%
Tuberculosis	0.013	0.064	↑392%	N/A	N/A	N/A	N/A	N/A	N/A	0.58	0.56	↓4%
Chlamydia	3.31	4.85	↑47%	4.22	2.96	↓30%*	4.94	5.24	↑6%	0.29	0.25	↓16%

Appendix to: Neudorf C, Fuller D, Cushon J, Glew R, Turner H, Ugolini C. An analytic approach for describing and prioritizing health inequalities at the local level in Canada: a descriptive study. *CMAJ Open* 2015. DOI:10.9778/cmajo.20150049. Copyright © 2015 8872147 Canada Inc. or its licensors

Vital Statistics Data												
	Rate per 1000			DRR			DRD			ALCC		
	1995	2009	% Change	1995	2009	% Change	1995	2009	% Change	1995	2009	% Change
All-Cause Mortality	6.09	5.88	↓3%	2.28	2.34	↑3%*	4.61	5.38	↑17%	0.28	0.23	↓17%
Infant Mortality	10.7	8.36	↓22%*	2.87	1.61	↓44%	10.7	3.39	↓69%	0.18	0.17	↓5%
Low Birth Weight	66.0	61.5	↓7%	2.27	1.53	↓33%	54.5	27.8	↓49%	0.06	0.06	→0%
High Birth Weight	106.4	134.8	↑27%	0.73	0.95	↑30%*	-33.7	-6.54	↓81%	0.15	0.08	↓46%*
Teen Pregnancy	87.1	56.6	↓35%*	4.19	8.63	↑106%*	113.3	114.3	↑1%	0.17	0.25	↑50%*
Teen Abortion	245.4	195.6	↓20%	0.63	0.93	↑49%*	-119.4	-13.2	↓89%	0.31	0.21	↓32%*

Immunizations Data												
	Rate per 1000			DRR			DRD			ALCC		
	2002	2011	% Change	2002	2011	% Change	2002	2011	% Change	2002	2011	% Change
Child Immunization	624.9	745.9	↑19%	0.32	0.76	↑136%*	-312.1	-202.9	↓35%	0.09	0.07	↓22%

Note. Recalculations of the percent change in overall rate, rate ratios, rate difference, and ALCC are subject to rounding error. The actual calculation was done rounding to the nearest fifth decimal.

Abbreviations: ALCC (area-level concentration coefficient), DRR (disparity rate ratio), DRD (disparity rate difference)

\* Represents a statistically significant ( $p < 0.05$ ) change.

+ N/A = There were no cases of Tuberculosis in the least deprived group.