Appendix 2: Covariables and data sources used in the Population Health Model (POHEM) for cardiovascular disease (CVD)

	Data	POHEM covariates (# categories)													
									Chronic disease profile and						
	sources		Demographics					SES		Biophysical measures				Health behaviours	
CVD risk factors (# categories)	Initial data source	5 years age groups (16)	Sex (2)	Region (5)	Ethnicity (2)	Immigrant (2)	Income (4)	Education (4)	Diabetes (2)	Heart disease (2)	Blood pressure (5)	Total cholesterol and HDL (5)	BMI/previous BMI (4)	Smoking (3)	
Blood pressure*(5)	Imputed using CHHS (1990)	٧	٧						٧			٧	٧		
Total cholesterol and HDL* (5)	Imputed using CHHS (1990)	٧	٧						٧		٧		٧		
Obesity (4)	NPHS (1996/97 - 2004/05)	٧	٧	٧			٧	٧					<b>V</b> †		
Diabetes (2)	NPHS (1996- 97)	<b>√</b> †	√‡		٧	٧		٧		٧	٧		à	٧	
Smoking (3)	CHS (1979), NPHS (1994) and CCHS (2008)	٧	√‡	٧											

Notes: CCHS= Canadian Community Health Survey, CHHS= Canadian Heart Health Study, CHS= Canadian Health Study, HDL= high-density lipoprotein, HS= health status, HUI= health utilities index, NPHS=Nation Population Health Survey, SES= socioeconomic status.

‡Models were constructed separately for males and females.

<sup>\*</sup>Co-evolving risk factors.

<sup>†</sup>Characteristics that are strongly predictive of the outcome (CVD risk factor).