

## **Appendix 1 (as supplied by the authors): Supplementary material**

### **Survey Questions - Household Income**

Household members above the age of 15 were asked the following questions:

*During the year ending December 31, XXX, did this person receive any income from the sources listed below?*

- (a) Total wages and salaries, including commissions, bonuses, tips, taxable benefits, research grants, royalties, etc., before any deductions*
- (b) Self-employment: net farm income e (gross receipts minus expenses), including grants and subsidies under farm-support programs, marketing board payments, gross insurance proceeds*
- (c) Self-employment: net non-farm income from unincorporated businesses, professional practice, etc. (gross receipts minus expenses)*
- (d) Child benefits such as child tax benefits, family allowances (federal, provincial and territorial)*
- (e) Old Age Security Pension, Guaranteed Income Supplement, Allowance and Allowance for the Survivor from federal government only*
- (f) Benefits from Canada or Quebec Pension Plan*
- (g) Benefits from Employment Insurance (total benefits before tax deductions)*
- (h) Other income from government sources, such as provincial income supplements and grants, the GST/QST/HST credit, provincial tax credits, workers' compensation, veterans' pensions, welfare payments*
- (i) Dividends, interest on bonds, deposits and savings certificates, and other investment income, such as net rents from real estate, interest from mortgages*
- (j) Retirement pensions, superannuation and annuities, including those from RRSPs and RRIFs.*
- (k) Other money income, such as alimony, child support, scholarships*

## Survey Questions - Education

Prior to 2006, household members above the age of 15 were asked the following questions:

*What certificates, diplomas, or degrees has this person ever obtained?*

- (a) None*
- (b) Secondary (high) school graduate certification or equivalent*
- (c) Trades certificate or diploma*
- (d) Other non-university certificate or diploma (obtained at community college, CEGEP, technical institute, etc.)*
- (e) University certificate or diploma below bachelor level*
- (f) Bachelor's degree(s) (e.g. B.A., B.Sc., LL.B)*
- (g) University certificate or diploma above bachelor level*
- (h) Master's degree(s) (e.g. M.A., M.Sc., M.Ed.)*
- (i) Degree in medicine, dentistry, veterinary medicine, or optometry (M.D., D.D.S., D.M.D., D.V.M., O.D.)*
- (j) Earned doctorate (e.g. Ph.D, Sc.D, D.Ed.)*

From 2006 onwards, household members above the age of 15 were asked the following questions:

*Has this person completed a secondary (high) school diploma or equivalent?*

*Has this person completed a Registered Apprenticeship or other trades certificate or diploma?*

*Has this person completed a college, CEGEP, or other non-university certificate or diploma?*

*Has this person completed a university degree, certificate, or diploma?*

**Supplementary Table S1: Trends in absolute socioeconomic inequalities in premature mortality in Canada (1991-2016)**

	RD (per 100000)				
	1991-1996	1996-2001	2001-2006	2006-2011	2011-2016
<b>Men</b>					
<b>Income</b>					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	375	355	347	253	223
Q3	634	638	599	535	457
Q2	1082	1127	996	890	906
Q1 (Bottom)	2478	2281	2177	2049	1915
<b>Education</b>					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	759	740	670	748	700
High School Degree	962	989	849	997	1018
Less than High School	1713	1725	1637	1762	1843
<b>Women</b>					
<b>Income</b>					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	122	148	79	146	127
Q3	235	229	240	329	279
Q2	351	354	343	489	478
Q1 (Bottom)	1008	920	970	1160	1085
<b>Education</b>					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	246	244	250	323	306
High School Degree	364	356	404	510	566
Less than High School	792	810	895	1140	1119

Note: RD = Risk Difference

**Supplementary Table S2: Trends in absolute socioeconomic inequalities in preventable mortality in Canada (1991-2016)**

	RD (per 100000)				
	1991-1996	1996-2001	2001-2006	2006-2011	2011-2016
<b>Men</b>					
Income					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	175	193	185	144	72
Q3	350	342	336	306	245
Q2	631	621	562	512	488
Q1 (Bottom)	1468	1327	1223	1167	1080
Education					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	413	422	389	440	434
High School Degree	526	586	485	566	573
Less than High School	1019	1020	1001	1060	1135
<b>Women</b>					
Income					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	46	80	39	56	59
Q3	98	96	115	138	135
Q2	176	202	203	241	242
Q1 (Bottom)	517	482	515	607	572
Education					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	169	160	128	181	191
High School Degree	207	182	210	284	302
Less than High School	464	447	474	622	639

Note: RD = Risk Difference

**Supplementary Table S3: Trends in absolute socioeconomic inequalities in amenable mortality in Canada (1991-2016)**

	RD (per 100000)				
	1991-1996	1996-2001	2001-2006	2006-2011	2011-2016
<b>Men</b>					
Income					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	124	86	59	47	76
Q3	165	141	121	104	105
Q2	253	268	219	185	195
Q1 (Bottom)	548	505	490	451	439
Education					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	224	163	149	167	130
High School Degree	269	219	194	233	217
Less than High School	402	375	358	369	353
<b>Women</b>					
Income					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	41	25	34	42	34
Q3	66	54	68	91	38
Q2	116	40	68	111	110
Q1 (Bottom)	285	208	240	285	261
Education					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	48	42	53	65	55
High School Degree	93	102	98	107	127
Less than High School	185	190	201	251	248

Note: RD = Risk Difference

**Supplementary Table S4: Trends in relative socioeconomic inequalities in premature mortality in Canada (1991-2016)**

	1991-1996	1996-2001	2001-2006	2006-2011	2011-2016
	RR (95% CI)	RR (95% CI)	RR (95% CI)	RR (95% CI)	RR (95% CI)
<b>Men</b>					
Income					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	1.18 (1.13-1.23)	1.22 (1.17-1.27)	<b>1.24 (1.18-1.31)</b>	<b>1.23 (1.18-1.28)</b>	<b>1.26 (1.20-1.33)</b>
Q3	1.33 (1.28-1.38)	<b>1.43 (1.37-1.49)</b>	<b>1.46 (1.40-1.53)</b>	<b>1.47 (1.42-1.53)</b>	<b>1.49 (1.42-1.56)</b>
Q2	1.55 (1.49-1.61)	<b>1.71 (1.65-1.78)</b>	<b>1.74 (1.67-1.82)</b>	<b>1.73 (1.67-1.80)</b>	<b>1.88 (1.80-1.97)</b>
Q1 (Bottom)	2.10 (2.02-2.17)	<b>2.36 (2.28-2.45)</b>	<b>2.52 (2.42-2.63)</b>	<b>2.62 (2.53-2.72)</b>	<b>2.79 (2.66-2.91)</b>
Education					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	1.45 (1.38-1.52)	<b>1.54 (1.47-1.61)</b>	<b>1.54 (1.47-1.61)</b>	<b>1.68 (1.62-1.74)</b>	<b>1.70 (1.63-1.78)</b>
High School Degree	1.54 (1.46-1.61)	<b>1.69 (1.61-1.77)</b>	<b>1.67 (1.59-1.76)</b>	<b>1.90 (1.83-1.97)</b>	<b>2.02 (1.93-2.11)</b>
Less than High School	1.98 (1.90-2.07)	<b>2.19 (2.10-2.28)</b>	<b>2.22 (2.13-2.32)</b>	<b>2.41 (2.32-2.50)</b>	<b>2.60 (2.48-2.72)</b>
<b>Women</b>					
Income					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	1.10 (1.03-1.17)	1.17 (1.10-1.23)	1.11 (1.04-1.19)	<b>1.23 (1.16-1.29)</b>	<b>1.24 (1.17-1.33)</b>
Q3	1.21 (1.14-1.28)	1.28 (1.21-1.35)	<b>1.32 (1.24-1.40)</b>	<b>1.48 (1.41-1.56)</b>	<b>1.49 (1.40-1.58)</b>
Q2	1.31 (1.24-1.38)	<b>1.40 (1.33-1.47)</b>	<b>1.44 (1.36-1.52)</b>	<b>1.69 (1.61-1.77)</b>	<b>1.77 (1.66-1.87)</b>
Q1 (Bottom)	1.72 (1.63-1.81)	1.80 (1.72-1.90)	<b>1.98 (1.88-2.09)</b>	<b>2.42 (2.31-2.54)</b>	<b>2.50 (2.36-2.64)</b>
Education					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	1.28 (1.19-1.39)	1.33 (1.24-1.42)	1.36 (1.27-1.44)	<b>1.47 (1.40-1.54)</b>	<b>1.47 (1.39-1.55)</b>
High School Degree	1.39 (1.29-1.50)	1.44 (1.35-1.55)	<b>1.53 (1.43-1.63)</b>	<b>1.71 (1.63-1.80)</b>	<b>1.82 (1.72-1.92)</b>
Less than High School	1.82 (1.69-1.95)	1.94 (1.82-2.08)	<b>2.06 (1.94-2.19)</b>	<b>2.28 (2.17-2.39)</b>	<b>2.31 (2.18-2.44)</b>

Note: RR = Risk Ratio; Bold signifies a statistically significant estimate compared to the 1991-1996 period.

**Supplementary Table S5: Trends in relative socioeconomic inequalities in preventable mortality in Canada (1991-2016)**

	1991-1996	1996-2001	2001-2006	2006-2011	2011-2016
	RR (95% CI)	RR (95% CI)	RR (95% CI)	RR (95% CI)	RR (95% CI)
<b>Men</b>					
Income					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	1.18 (1.11-1.25)	1.26 (1.18-1.34)	1.26 (1.18-1.36)	<b>1.29 (1.22-1.37)</b>	<b>1.22 (1.13-1.31)</b>
Q3	1.38 (1.30-1.46)	<b>1.51 (1.42-1.60)</b>	<b>1.54 (1.44-1.65)</b>	<b>1.58 (1.49-1.67)</b>	<b>1.56 (1.45-1.67)</b>
Q2	1.66 (1.57-1.75)	<b>1.88 (1.77-1.98)</b>	<b>1.89 (1.77-2.01)</b>	<b>1.90 (1.80-2.01)</b>	<b>2.02 (1.88-2.16)</b>
Q1 (Bottom)	2.37 (2.25-2.49)	<b>2.75 (2.61-2.91)</b>	<b>2.86 (2.69-3.04)</b>	<b>2.98 (2.83-3.14)</b>	<b>3.10 (2.91-3.31)</b>
Education					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	1.48 (1.38-1.58)	<b>1.68 (1.57-1.80)</b>	<b>1.72 (1.61-1.84)</b>	<b>1.87 (1.77-1.97)</b>	<b>1.97 (1.85-2.10)</b>
High School Degree	1.59 (1.48-1.70)	<b>1.92 (1.78-2.06)</b>	<b>1.89 (1.75-2.03)</b>	<b>2.11 (2.00-2.24)</b>	<b>2.27 (2.13-2.43)</b>
Less than High School	2.17 (2.04-2.31)	<b>2.60 (2.45-2.77)</b>	<b>2.75 (2.57-2.94)</b>	<b>2.88 (2.72-3.04)</b>	<b>3.26 (3.05-3.49)</b>
<b>Women</b>					
Income					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	1.11 (1.00-1.24)	<b>1.26 (1.14-1.38)</b>	1.19 (1.07-1.33)	<b>1.27 (1.16-1.40)</b>	<b>1.32 (1.18-1.46)</b>
Q3	1.28 (1.15-1.41)	1.36 (1.24-1.49)	<b>1.48 (1.34-1.65)</b>	<b>1.61 (1.48-1.75)</b>	<b>1.67 (1.51-1.85)</b>
Q2	1.46 (1.33-1.60)	<b>1.67 (1.53-1.82)</b>	<b>1.79 (1.63-1.97)</b>	<b>1.98 (1.82-2.15)</b>	<b>2.11 (1.91-2.32)</b>
Q1 (Bottom)	2.12 (1.95-2.32)	2.28 (2.10-2.48)	<b>2.62 (2.40-2.88)</b>	<b>3.14 (2.90-3.40)</b>	<b>3.28 (2.99-3.61)</b>
Education					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	1.59 (1.38-1.83)	1.66 (1.47-1.88)	1.57 (1.40-1.75)	<b>1.84 (1.69-2.00)</b>	<b>1.89 (1.72-2.07)</b>
High School Degree	1.70 (1.47-1.96)	1.75 (1.55-1.99)	1.86 (1.66-2.09)	<b>2.27 (2.09-2.47)</b>	<b>2.35 (2.13-2.59)</b>
Less than High School	2.57 (2.25-2.93)	2.73 (2.42-3.07)	2.78 (2.49-3.10)	<b>3.28 (3.01-3.57)</b>	<b>3.42 (3.10-3.77)</b>

Note: RR = Risk Ratio; Bold signifies a statistically significant estimate compared to the 1991-1996 period.

**Supplementary Table S6: Trends in relative socioeconomic inequalities in amenable mortality in Canada (1991-2016)**

	1991-1996	1996-2001	2001-2006	2006-2011	2011-2016
	RR (95% CI)	RR (95% CI)	RR (95% CI)	RR (95% CI)	RR (95% CI)
<b>Men</b>					
Income					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	1.25 (1.14-1.36)	1.24 (1.13-1.36)	1.19 (1.07-1.31)	1.21 (1.10-1.32)	1.38 (1.23-1.54)
Q3	1.35 (1.24-1.46)	1.39 (1.27-1.51)	1.40 (1.27-1.55)	1.41 (1.29-1.53)	<b>1.51 (1.36-1.68)</b>
Q2	1.51 (1.39-1.63)	<b>1.70 (1.57-1.85)</b>	<b>1.71 (1.56-1.87)</b>	<b>1.66 (1.53-1.81)</b>	<b>1.89 (1.71-2.09)</b>
Q1 (Bottom)	1.97 (1.83-2.13)	<b>2.28 (2.11-2.47)</b>	<b>2.48 (2.27-2.71)</b>	<b>2.62 (2.42-2.83)</b>	<b>3.02 (2.74-3.33)</b>
Education					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	1.62 (1.46-1.78)	1.49 (1.36-1.64)	1.56 (1.42-1.72)	1.71 (1.59-1.85)	1.61 (1.46-1.76)
High School Degree	1.67 (1.50-1.85)	1.64 (1.48-1.82)	1.70 (1.54-1.88)	<b>1.99 (1.83-2.16)</b>	<b>2.03 (1.83-2.24)</b>
Less than High School	2.05 (1.87-2.25)	2.08 (1.90-2.27)	2.21 (2.02-2.41)	<b>2.43 (2.24-2.63)</b>	<b>2.42 (2.19-2.67)</b>
<b>Women</b>					
Income					
Q5 (Top)	Ref.	Ref.	Ref.	Ref.	Ref.
Q4	1.09 (0.98-1.21)	1.08 (0.98-1.19)	1.11 (1.00-1.24)	1.17 (1.06-1.29)	1.20 (1.07-1.35)
Q3	1.14 (1.03-1.27)	1.18 (1.07-1.29)	<b>1.28 (1.15-1.42)</b>	<b>1.37 (1.25-1.51)</b>	1.22 (1.10-1.36)
Q2	1.27 (1.15-1.39)	1.13 (1.03-1.23)	1.28 (1.16-1.42)	<b>1.44 (1.32-1.58)</b>	<b>1.54 (1.39-1.71)</b>
Q1 (Bottom)	1.56 (1.43-1.70)	1.49 (1.36-1.62)	<b>1.74 (1.59-1.91)</b>	<b>2.05 (1.89-2.23)</b>	<b>2.11 (1.91-2.33)</b>
Education					
Postsecondary Degree	Ref.	Ref.	Ref.	Ref.	Ref.
Some Postsecondary	1.22 (1.07-1.39)	1.19 (1.06-1.33)	1.24 (1.11-1.37)	1.27 (1.17-1.38)	1.28 (1.16-1.41)
High School Degree	1.34 (1.18-1.53)	1.36 (1.21-1.53)	1.38 (1.23-1.53)	1.43 (1.32-1.56)	<b>1.55 (1.41-1.72)</b>
Less than High School	1.59 (1.41-1.79)	1.64 (1.47-1.83)	1.70 (1.54-1.89)	<b>1.82 (1.67-1.99)</b>	<b>1.86 (1.67-2.07)</b>

Note: RR = Risk Ratio; Bold signifies a statistically significant estimate compared to the 1991-1996 period.