

The Impact of Private Insurance Coverage on Prescription Drug Use in Ontario, Canada

Impact de l'assurance médicaments privée sur l'utilisation des médicaments délivrés sur ordonnance en Ontario,

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Appendix 2. Variables associated with the likelihood of respondents to take prescription medications

Table 7. Variables associated with the likelihood of respondents aged under 65 years with asthma to take prescription medications – Comparison between respondents with “Private Insurance” versus respondents with “No Insurance”

Variable	OR	95% CI	p-value
Intercept			0.6861
Patient proxy responded to questions	1.367	(0.322–5.809)	0.6715
Age	0.982	(0.964–1.00)	0.5620
Sex			
Male	1.370	(0.944–1.987)	0.0975
Female (reference)	1.000		
Marital Status			
Married/common law	0.697	(0.400–1.213)	0.2013
Widow/separated/divorced	0.868	(0.454–1.658)	0.6671
Single/never married (reference)	1.000		
Immigrant Status			
Immigrant	1.721	(0.979–3.024)	0.0592
Non-immigrant (reference)	1.000		
Geography			
Urban	0.962	(0.617–1.498)	0.8627
Rural (reference)	1.000		
Health Status			
Excellent	0.668	(0.190–2.357)	0.5310
Very good	0.434	(0.130–1.457)	0.1769
Good	0.538	(0.165–1.747)	0.3021
Fair	0.627	(0.187–2.104)	0.4501
Poor (reference)	1.000		
Number of Chronic Conditions			
1 condition	1.036	(0.575–1.867)	0.9072
2 conditions	0.976	(0.540–1.764)	0.9365
3 conditions	1.021	(0.555–1.878)	0.9475
4 or more conditions (reference)	1.000		
Consultations with a medical doctor			
Regular medical consultations	0.802	(0.449–1.431)	0.4544
No regular medical consultations (reference)	1.000		
Household Size			
1 person	1.191	(0.461–3.074)	0.7183
2 persons	1.181	(0.524–2.663)	0.6877
3 persons	0.959	(0.414–2.222)	0.9225

4 persons	0.640	(0.268–1.529)	0.3153
5 or more persons (reference)	1.000		
Income	1.000	(1.000–1.000)	0.0016
Employment Status			
Employed at a job or business	1.095	(0.295–4.068)	0.8924
Employed but absent from job in previous week	0.386	(0.079–1.880)	0.2385
Not employed	1.319	(0.352–4.948)	0.6810
Permanently unable to work (reference)	1.000		
Education level			
Less than high school	1.092	(0.629–1.897)	0.7539
High school	1.374	(0.835–2.262)	0.2111
Some post-secondary	1.497	(0.764–2.933)	0.2395
Post-secondary graduate (reference)	1.000		
Asthma symptoms or attacks in the past 12 months	1.175	(0.807–1.710)	0.4009

Table 8. Variables associated with the likelihood of respondents aged 65+ years with asthma to take prescription medications – Comparison between respondents with “Private Insurance” versus respondents with “Public Insurance”

Variable	OR	95% CI	p-value
Intercept			0.4702
Patient proxy responded to questions	4.607	(0.508–41.790)	0.1745
Age	1.074	(1.007–1.145)	0.0307
Sex			
Male	0.647	(0.279–1.498)	0.3092
Female (reference)	1.000		
Marital status			
Married/common law	0.055	(0.002–1.717)	0.0986
Widow/separated/divorced	0.096	(0.003–3.086)	0.1854
Single/never married (reference)	1.000		
Immigrant status			
Immigrant	2.082	(0.795–5.452)	0.1355
Non-immigrant (reference)	1.000		
Geography			
Urban	0.653	(0.276–1.542)	0.3308
Rural (reference)	1.000		
Health status			
Excellent	4.712	(0.730–30.416)	0.1033
Very good	2.060	(0.434–9.778)	0.3629
Good	2.324	(0.571–9.778)	0.2390
Fair	2.667	(0.625–11.381)	0.1851
Poor (reference)	1.000		
Number of chronic conditions			
1 condition	1.076	(0.099–11.659)	0.9517
2 conditions	0.761	(0.224–2.583)	0.6612
3 conditions	1.551	(0.564–4.267)	0.3953
4 or more conditions (reference)	1.000		
Consultations with a medical doctor			
Regular medical consultations	0.855	(0.103–7.101)	0.8849
No regular medical consultations (reference)	1.000		
Income	1.000	(1.000–1.000)	0.0753
Education level			
Less than high school	1.598	(0.612–4.176)	0.3385
High school	0.428	(0.143–1.285)	0.1305

Some post-secondary	1.214	(0.242–6.096)	0.8138
Post-secondary graduate (reference)	1.000		
Asthma symptoms or attacks in the past 12 months	1.230	(0.559–2.708)	0.6066

Table 9. Variables associated with the likelihood of respondents aged under 65 years with high blood pressure to take prescription medications – Comparison between respondents with “Private Insurance” versus respondents with “No Insurance”

Variable	OR	95% CI	p-value
Intercept			0.0251
Patient proxy responded to questions	1.485	(0.191–11.526)	0.7050
Age	0.979	(0.962–0.996)	0.0136
Sex			
Male	1.258	(0.936–1.690)	0.1275
Female (reference)	1.000		
Marital status			
Married/common law	0.770	(0.455–1.303)	0.3296
Widow/separated/divorced	0.863	(0.525–1.420)	0.5618
Single/never married (reference)	1.000		
Immigrant status			
Immigrant	1.572	(1.105–2.235)	0.0118
Non-immigrant (reference)	1.000		
Geography			
Urban	0.863	(0.620–1.202)	0.3836
Rural (reference)	1.000		
Health status			
Excellent	0.731	(0.316–1.691)	0.4639
Very good	0.829	(0.410–1.675)	0.6007
Good	0.722	(0.365–1.429)	0.3498
Fair	0.900	(0.449–1.802)	0.7661
Poor (reference)	1.000		
Number of chronic conditions			
One	1.559	(0.994–2.444)	0.0531
Two	1.356	(0.889–2.066)	0.1571
Three	0.857	(0.529–1.387)	0.5293
Four or more (reference)	1.000		
Consultations with a medical doctor			
Regular medical consultations	0.674	(0.400–1.137)	0.1392
No regular medical consultations (reference)	1.000		
Income	1.000	(1.000–1.000)	<0.0001
Education level			
Less than high school	0.889	(0.581–1.361)	0.5876
High school	0.912	(0.625–1.330)	0.6326
Some post-secondary	1.343	(0.791–2.280)	0.2746
Post-secondary graduate (reference)	1.000		
Household size			
One person	0.505	(0.215–1.186)	0.1169
Two persons	0.642	(0.315–1.310)	0.223
Three persons	0.494	(0.220–1.108)	0.0871
Four persons	0.856	(0.376–1.951)	0.7121
Five or more persons (reference)	1.000		

Table 10. Variables associated with the likelihood of respondents aged 65+ years with high blood pressure to take prescription medications – Comparison between respondents with “Private Insurance” versus respondents with “Public Insurance”

Variable	OR	95% CI	p-value
Intercept			0.6784
Patient proxy responded to questions	1.516	(0.751–3.061)	0.2460
Age	1.027	(1.006–1.048)	0.0108
Sex			
Male	0.790	(0.614–1.018)	0.0682
Female (reference)	1.000		
Marital status			
Married/common law	0.602	(0.283–1.280)	0.1875
Widow/separated/divorced	0.917	(0.511–1.647)	0.7730
Single/never married (reference)	1.000		
Immigrant status			
Immigrant	1.150	(0.871–1.519)	0.3229
Non-immigrant (reference)	1.000		
Geography			
Urban	0.904	(0.678–1.204)	0.4890
Rural (reference)	1.000		
Health status			
Excellent	0.580	(0.298–1.127)	0.1079
Very good	0.682	(0.395–1.177)	0.1693
Good	0.922	(0.546–1.558)	0.7619
Fair	1.185	(0.677–2.074)	0.5512
Poor (reference)	1.000		
Number of chronic conditions			
One	1.235	(0.823–1.853)	0.3082
Two	1.158	(0.825–1.625)	0.3967
Three	0.941	(0.670–1.323)	0.7276
Four or more (reference)	1.000		
Consultations with a medical doctor			
Regular medical consultations	1.111	(0.534–2.311)	0.7789
No regular medical consultations (reference)	1.000		
Income			
	1.000	(1.000–1.000)	0.0042
Education level			
Less than high school	1.612	(1.194–2.176)	0.0018
High school	1.562	(1.116–2.187)	0.0094
Some post-secondary	1.372	(0.782–2.404)	0.2698
Post-secondary graduate (reference)	1.000		
Household size			
One person	0.146	(0.034–0.634)	0.0102
Two persons	0.195	(0.047–0.819)	0.0255
Three persons	0.259	(0.055–1.217)	0.0871
Four persons	0.357	(0.041–3.111)	0.3513
Five or more persons (reference)	1.000		

Table 11. Variable associated with the likelihood of respondents aged under 65 years with diabetes to take prescription medications – Comparison between respondents with “Private Insurance” versus respondents with “No Insurance”

Variable	OR	95% CI	p-value
Intercept			0.5484
Patient proxy responded to questions	0.350	(0.010–12.610)	0.5657
Age	1.025	(0.989–1.062)	0.1784
Sex			
Male	1.063	(0.619–1.826)	0.8252
Female (reference)	1.000		
Marital status			
Married/common law	0.365	(0.131–1.014)	0.0532
Widow/separated/divorced	0.573	(0.223–1.471)	0.2468
Single/never married (reference)	1.000		
Immigrant status			
Immigrant	1.576	(0.837–2.966)	0.1589
Non-immigrant (reference)	1.000		
Geography			
Urban	0.998	(0.521–1.909)	0.9945
Rural (reference)	1.000		
Health status			
Excellent	1.261	(0.299–5.316)	0.7517
Very good	0.706	(0.241–2.064)	0.5242
Good	0.506	(0.187–1.365)	0.1785
Fair	0.845	(0.305–2.344)	0.7465
Poor (reference)	1.000		
Number of chronic conditions			
One	3.335	(1.444–7.705)	0.0048
Two	2.116	(1.028–4.354)	0.0419
Three	1.365	(0.607–3.071)	0.4516
Four or more (reference)	1.000		
Consultations with a medical doctor			
Regular medical consultations	1.111	(0.303–4.078)	0.8741
No regular medical consultations (reference)	1.000		
Household size			
One person	0.224	(0.054–0.935)	0.0401
Two persons	0.390	(0.135–1.123)	0.0810
Three persons	0.459	(0.137–1.537)	0.2065
Four persons	0.859	(0.248–2.973)	0.8106
Five or more persons (reference)	1.000		
Income	1.000	(1.000–1.000)	0.0012
Employment status			
Employed at a job or business	1.126	(0.314–4.043)	0.8558
Employed but absent from job in previous week	0.427	(0.059–3.072)	0.3978
Not employed	2.073	(0.593–7.252)	0.2538
Permanently unable to work (reference)	1.000		
Education level			
Less than high school	0.699	(0.315–1.552)	0.3785
High school	0.904	(0.453–1.805)	0.7752
Some post-secondary	1.334	(0.548–3.251)	0.5258
Post-secondary graduate (reference)	1.000		
Type1	1.547	(0.491–4.873)	0.4557

Table 12. Variables associated with the likelihood of respondents aged 65+ years with diabetes to take prescription medications – Comparison between respondents with “Private Insurance” versus respondents with “Public Insurance”

Variable	OR	95% CI	p-value
Intercept			0.5527
Patient proxy responded to questions	4.559	(1.070–19.431)	0.0403
Age	1.054	(1.013–1.097)	0.0090
Sex			
Male	0.824	(0.502–1.352)	0.4437
Female (reference)	1.000		
Marital status			
Married/common law	0.196	(0.036–1.060)	0.0585
Widow/separated/divorced	0.860	(0.301–2.457)	0.7783
Single/never married (reference)	1.000		
Immigrant status			
Immigrant	1.435	(0.833–2.473)	0.1929
Non-immigrant (reference)	1.000		
Geography			
Urban	1.023	(0.587–1.784)	0.9351
Rural (reference)	1.000		
Health status			
Excellent	1.374	(0.341–5.534)	0.6553
Very good	1.303	(0.469–3.626)	0.6118
Good	1.422	(0.527–3.836)	0.4871
Fair	1.522	(0.562–4.120)	0.4084
Poor (reference)	1.000		
Number of chronic conditions			
One	0.753	(0.328–1.728)	0.5032
Two	1.979	(1.037–3.779)	0.0386
Three	0.812	(0.455–1.449)	0.4813
Four or more (reference)	1.000		
Consultations with a medical doctor			
Regular medical consultations	0.995	(0.247–4.001)	0.9941
No regular medical consultations (reference)	1.000		
Income			
	1.000	(1.000–1.000)	0.0881
Education level			
Less than high school	1.518	(0.878–2.624)	0.1353
High school	1.512	(0.762–3.000)	0.2373
Some post-secondary	1.337	(0.456–3.920)	0.5970
Post-secondary graduate (reference)	1.000		
Household size			
One person	0.136	(0.002–7.772)	0.3336
Two persons	0.501	(0.010–25.418)	0.7304
Three persons	0.539	(0.009–32.167)	0.7671
Four persons	3.410	(0.021–565.705)	0.6381
Five or more persons (reference)	1.000		
Type 1	1.250	(0.072–21.715)	0.8784