

Reasons for Self-Reported Unmet Healthcare Needs in Canada: A Population-Based Provincial Comparison

LYN M. SIBLEY AND RICHARD H. GLAZIER

TABLE 5. Multivariate logistic regression models for overall unmet need and each reason

Variable	Overall	Availability	Accessibility	Acceptability
Place of Residence				
Province				
British Columbia [†]	1.00	1.00	1.00	1.00
Alberta	0.87 (0.77, 0.99)*	1.10 (0.93, 1.31)	0.75 (0.62, 0.90)**	0.88 (0.74, 1.05)
Saskatchewan	0.75 (0.63, 0.89)**	0.79 (0.61, 1.01)	0.27 (0.19, 0.38)**	0.97 (0.77, 1.22)
Manitoba	1.09 (0.93, 1.28)	1.73 (1.38, 2.16)**	0.26 (0.17, 0.40)**	1.05 (0.83, 1.32)
Ontario	0.88 (0.80, 0.97)*	1.31 (1.14, 1.51)**	0.43 (0.34, 0.54)**	0.83 (0.71, 0.96)*
Quebec	1.09 (0.98, 1.21)	1.95 (1.69, 2.26)**	0.34 (0.25, 0.46)**	0.80 (0.68, 0.94)**
New Brunswick	0.93 (0.80, 1.08)	1.65 (1.34, 2.03)**	0.45 (0.31, 0.65)**	0.67 (0.53, 0.85)**
Nova Scotia	0.86 (0.73, 1.01)	1.32 (1.08, 1.61)*	0.55 (0.40, 0.75)**	0.74 (0.57, 0.96)*
Prince Edward Island	0.60 (0.47, 0.78)**	0.83 (0.61, 1.13)	0.29 (0.14, 0.59)**	0.68 (0.45, 1.01)
Newfoundland	1.06 (0.87, 1.30)	1.93 (1.53, 2.43)**	0.35 (0.19, 0.64)**	0.81 (0.59, 1.11)
Statistical Area Classification[†]				
Urban – CMA	0.89 (0.82, 0.96)**	0.80 (0.73, 0.89)**	1.02 (0.79, 1.31)	0.98 (0.87, 1.10)
Urban – CA [†]	1.00	1.00	1.00	1.00
Rural – Strong MIZ	0.85 (0.73, 0.98)*	0.82 (0.68, 0.99)*	0.56 (0.40, 0.80)**	0.94 (0.76, 1.17)
Rural – Moderate MIZ	0.80 (0.72, 0.90)**	0.75 (0.65, 0.87)**	0.81 (0.55, 1.17)	0.87 (0.72, 1.06)
Rural – Weak or No MIZ	0.84 (0.75, 0.93)**	0.91 (0.79, 1.03)	0.80 (0.65, 0.99)*	0.86 (0.73, 1.00)
Need				
Chronic Conditions				
None	0.74 (0.67, 0.83)**	0.81 (0.71, 0.92)**	0.50 (0.40, 0.63)**	0.74 (0.64, 0.87)**
1 chronic condition [†]	1.00	1.00	1.00	1.00
2 or more conditions	1.67 (1.52, 1.84)**	1.79 (1.59, 2.02)**	1.49 (1.20, 1.85)**	1.44 (1.26, 1.64)**
Self-rated Health				
Excellent	0.45 (0.41, 0.50)**	0.45 (0.40, 0.52)**	0.55 (0.41, 0.74)**	0.45 (0.38, 0.52)**
Very good	0.67 (0.62, 0.73)**	0.67 (0.60, 0.74)**	0.65 (0.54, 0.79)**	0.71 (0.63, 0.80)**

Variable	Overall	Availability	Accessibility	Acceptability
Good [†]	1.00	1.00	1.00	1.00
Fair	1.60 (1.45, 1.76)**	1.43 (1.26, 1.62)**	1.54 (1.19, 1.99)**	1.66 (1.44, 1.92)**
Poor	3.36 (2.87, 3.94)**	2.94 (2.44, 3.54)**	3.04 (2.16, 4.27)**	3.09 (2.52, 3.78)**
Predisposing Characteristics				
Sex				
Female [†]	1.00	1.00	1.00	1.00
Male	0.72 (0.68, 0.78)**	0.67 (0.61, 0.73)**	0.73 (0.60, 0.89)**	0.82 (0.74, 0.91)**
Age				
20 to 29 years	1.13 (1.01, 1.27)*	0.90 (0.77, 1.05)	0.94 (0.65, 1.35)	1.59 (1.34, 1.89)**
30 to 39 years	1.79 (1.62, 1.99)**	1.53 (1.34, 1.75)**	1.48 (1.19, 1.84)**	2.10 (1.80, 2.44)**
40 to 49 years	1.42 (1.29, 1.57)**	1.29 (1.12, 1.48)**	1.35 (1.01, 1.82)*	1.63 (1.42, 1.88)**
50 to 59 years [†]	1.00	1.00	1.00	1.00
60 to 69 years	0.67 (0.59, 0.67)**	0.75 (0.64, 0.88)**	0.61 (0.44, 0.83)**	0.64 (0.53, 0.77)**
70 to 79 years	0.52 (0.45, 0.60)**	0.57 (0.47, 0.70)**	0.48 (0.30, 0.79)**	0.59 (0.46, 0.74)**
80+ years	0.30 (0.25, 0.36)**	0.29 (0.23, 0.37)**	0.24 (0.15, 0.40)**	0.44 (0.33, 0.57)**
Marital Status				
Married or equivalent [†]	1.00	1.00	1.00	1.00
Single/divorced/widowed	1.03 (0.96, 1.10)	0.94 (0.86, 1.02)	1.31 (1.07, 1.61)**	1.06 (0.96, 1.17)
Educational Attainment				
< Secondary graduation	0.97 (0.86, 1.09)	0.85 (0.74, 0.99)*	1.26 (1.02, 1.56)*	1.07 (0.91, 1.27)
Secondary graduation [†]	1.00	1.00	1.00	1.00
Other post-secondary	1.39 (1.22, 1.58)**	1.33 (1.13, 1.56)**	1.69 (1.29, 2.21)**	1.30 (1.07, 1.57)**
Post-secondary graduation	1.29 (1.18, 1.42)**	1.40 (1.26, 1.55)**	1.40 (1.15, 1.70)**	1.10 (0.95, 1.26)
Ethnic or Cultural Origin				
White [†]	1.00	1.00	1.00	1.00
Not White	0.90 (0.81, 1.01)	0.96 (0.83, 1.12)	1.22 (1.00, 1.50)*	0.83 (0.71, 0.97)*
Enabling Resources				
Has a Regular Medical Doctor				
Yes [†]	1.00	1.00	1.00	1.00
No	1.69 (1.54, 1.85)**	1.55 (1.49, 1.85)**	1.40 (1.07, 1.83)**	1.78 (1.56, 2.03)**

Reasons for Self-Reported Unmet Healthcare Needs in Canada

Variable	Overall	Availability	Accessibility	Acceptability
Income Adequacy (2 cats)				
Low income	1.19 (1.06, 1.33)**	1.03 (0.88, 1.21)	1.51 (1.26, 1.80)**	1.26 (1.08, 1.48)**
Middle or high income [†]	1.00	1.00	1.00	1.00
Unknown, NA or not stated	0.92 (0.81, 1.04)	1.00 (0.86, 1.17)	0.98 (0.76, 1.26)	0.84 (0.70, 1.01)
Has Pharmaceuticals Insurance				
Yes [†]	1.00	1.00	1.00	1.00
No	1.20 (1.11, 1.29)**	1.05 (0.95, 1.15)	2.56 (2.17, 3.01)**	1.01 (0.90, 1.13)
Occupation Class				
Business/social services/healthcare [†]	1.00	1.00	1.00	1.00
Sales and service	0.96 (0.88, 1.05)	0.86 (0.76, 0.97)*	1.39 (1.09, 1.78)**	0.99 (0.87, 1.12)
Trades/transport/primary	1.01 (0.91, 1.11)	0.87 (0.76, 0.99)	1.31 (1.01, 1.71)*	1.08 (0.93, 1.25)
Not employed	0.85 (0.76, 0.94)**	0.82 (0.72, 0.94)**	1.16 (0.91, 1.47)	0.84 (0.72, 0.99)*

Odds ratio (95% CI). Higher numbers indicate a greater odds of the outcome.

* p < 0.05, ** p < 0.01

[†] Reference category

* CMA = Census Metropolitan Area; CA = Census Amalgamation; MIZ = Metropolitan Influence Zone