

Supplementary Table 1. Emergency department visits for self-harm^a with subsequent suicide event during observation window.

	Suicide ^a	No suicide	Total	<i>p</i> -value ^b	Mean days to suicide from self-harm visit (\pm SD)	Median days to suicide from self-harm visit (IQR)
Immigrants n (%)	11 (0.6)	1880 (99.4)	1891	0.0033	583.5 (\pm 472.6)	389 (257 - 1035)
Long-term residents n (%)	765 (1.4)	54849 (98.6)	55614		733.7 (\pm 762.8)	483 (128 - 1087)

^aEmergency department self-harm restricted to visits before 2014 as suicide data only available until 2014.

^bDifferences between suicide following self-harm tested using Chi-squared test.

Supplementary Table 2. Number and proportion hospitalized following a visit to the emergency department for self-harm.

By immigrant status				
	Hospitalized	Not Hospitalized	Total	<i>p</i> -value ^b
Immigrants, n (%)	909 (40.3)	1347 (59.7)	2256	<.0001
Long-term residents, n (%)	32446 (47.7)	35593 (52.3)	68039	
By immigrant visa class				
Economic, n (%)	215 (37.5)	359 (62.5)	574	0.151
Refugee, n (%)	154 (38.8)	242 (61.1)	396	
Family/Other/Missing, n (%)	540 (42.0)	746 (58.0)	1286	

^aCombined Business with Economic Class

^bDifferences tested using Chi-squared test.

Supplementary Table 3. Number of events and rates of suicide and self-harm by among immigrants and long-term residents using direct standardization.								
	Suicide				Self-Harm			
	Immigrants (N =130)		Non-immigrants (N = 6,354)		Immigrants (N =2,256)		Non-immigrants (N = 68,039)	
	Crude rate/ 100K (CI)	Standardized rate/ 100K (CI)	Crude rate/ 100K (CI)	Standardized rate/ 100K (CI)	Crude rate/ 10K (CI)	Standardized rate/ 10K (CI)	Crude rate/ 10K (CI)	Standardized rate/ 10K (CI)
Overall	3.33 (2.78 - 3.95)	3.66 (2.90 - 4.56)	11.80 (11.52 - 12.10)	11.76 (11.47 - 12.05)	4.44 (4.26 - 4.63)	3.42 (3.24 - 3.60)	9.73 (9.65 - 9.80)	9.61 (9.54 - 9.69)
Immigration status	N/A				N/A			
Business	Combined with Economic				5.22 (3.61 - 7.29)	-		
Economic	2.77 (2.03 - 3.70)	-			2.60 (2.38 - 2.83)	-		
Refugee	6.12 (3.88 - 9.18)	-			8.09 (7.31 - 8.93)	6.53 (5.63 - 7.52)		
Family	3.26 (2.50 - 4.19)	3.45 (2.54 - 4.59)			5.26 (4.98 - 5.56)	3.95 (3.69 - 4.21)		
Neighbourhood income quintile								
Quintile 1 ^a	3.97 (3.00 - 5.16)	-	16.17 (15.37 - 17.00)	16.29 (15.48 - 17.13)	4.35 (4.05 - 4.66)	3.25 (2.94 - 3.58)	15.86 (15.64 - 16.09)	15.46 (15.24 - 15.68)
Quintile 2	2.58 (1.66 - 3.84)	-	12.93 (12.25 - 13.64)	12.91 (12.23 - 13.62)	4.79 (4.41 - 5.20)	3.62 (3.26 - 4.02)	10.70 (10.53 - 10.87)	10.56 (10.39 - 10.73)
Quintile 3	2.02 (1.10 - 3.39)	-	11.52 (10.88 - 12.18)	11.43 (10.80 - 12.09)	4.56 (4.13 - 5.02)	3.53 (3.14 - 3.97)	8.83 (8.67 - 8.99)	8.70 (8.55 - 8.86)
Quintile 4	4.10 (2.54 - 6.27)	-	9.72 (9.15 - 10.31)	9.68 (9.11 - 10.27)	4.43 (3.94 - 4.97)	3.47 (3.04 - 3.95)	7.66 (7.52 - 7.80)	7.61 (7.47 - 7.75)
Quintile 5	3.61 (1.87 - 6.31)	-	9.32 (8.77 - 9.89)	9.28 (8.74 - 9.85)	3.75 (3.20 - 4.37)	3.08 (2.57 - 3.66)	6.62 (6.49 - 6.75)	6.71 (6.58 - 6.85)
Rurality								
Urban	3.26 (2.71 - 3.89)	3.60 (2.83 - 4.51)	11.22 (10.88 - 11.57)	11.19 (10.85 - 11.54)	4.39 (4.21 - 4.58)	3.35 (3.18 - 3.54)	9.53 (9.44 - 9.62)	9.33 (9.25 - 9.42)
Rural ^b	5.50 (2.21 - 11.33)	-	12.65 (12.12 - 13.19)	12.55 (12.02 - 13.09)	6.69 (5.39 - 8.20)	-	9.72 (9.59 - 9.85)	9.82 (9.69 - 9.96)
a. Combined with missing to prevent back-calculation of small cells sizes as per institutional policy								
b. Standardized using direct standardization to the 2011 Canadian population								
CI, 95% Confidence Intervals								