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Study (Year)	Bill	Reported beneficial effect?	Effect on firearm homicides ¹	Evidence of method substitution
Sproule (1988)	C-51	Yes	 No change in total standardized national homicide rate Mean standardized firearm homicide rate decreased from 1.38 to 1.10 per 100,000 	Non-firearm homicide increased post-Bill C-51. After accounting for relationship between suspect/victim, effect was diminished due to high victim:suspect ratio in firearm vs. non-firearm homicides
Mundt (1990)	C-51	No	No effect on homicide rate	None reported
Mauser (1992)	C-51	No	 No significant effect on homicide rate Covariates: male youth % of population, unemployment rate, % of population foreign immigrant, gun law (before/after 1977), homicide clearance rate, % of population with Indian status, time (to account for linear trend in homicide rates) 	None reported
Leenaars (1994, 1996, 1997, 2001)	C-51	Yes	 Mean firearm homicide rate (per 100,000 per year) decreased from 0.96 ± 0.15 to 0.82 ± 0.08 Use of firearms for homicide was decreased for those >15 years 	Non-firearm methods for homicides increased in 15-24 year olds
			Multivariate model Decline in overall homicide rate Nonsignificant decline in firearms homicide rate Nonsignificant reduction in % of homicides committed by firearms Covariates: Bill C-51, % young males, birth rate, marriage rate, divorce rate, unemployment, median family income	No increase in homicide rate by all other methods
Bridges (2004)	C-17	Yes	 Mean firearm homicide rate decreased from 0.69 per 100,000 (SE 0.03) to 0.57 per 100,000 (SE 0.04) Rates of firearm homicide, total homicide rate, and homicide by all other methods showed significant decreases 	Raw rate of homicide by all other methods decreased
Blais (2011)	C-51	Yes	 Firearm homicide rate decreased by 5%-10%, depending on the province Reduction most noticeable in homicides committed with a shotgun or a hunting rifle 	No evidence of method substitution
	C-17	No	No decline in firearm homicide rate	No evidence of method substitution
	C-68	Yes	• Firearm homicide rate decreased by 5%-10%, depending on the province	No evidence of method substitution

			Reduction most noticeable in homicides committed with a shotgun or a hunting rifle	
			Covariates: Bill C-51, Bill C-17, Bill C-68, % population aged 15-24 yrs, population growth associated with immigration • Effectiveness of laws was attributed to reduced access and availability of firearms rather than to the severity of sentences provided in the legislation	
Langmann (2012)	C-51	No	 No effect on firearm homicide rate No effect on overall homicide rate or spousal homicide rate 	No evidence of method substitution
	C-17	No	 No effect on firearm homicide rate No effect on overall homicide rate or spousal homicide rate 	No evidence of method substitution
	C-68	No	 No effect on firearm homicide rate No effect on overall homicide rate or spousal homicide rate Joinpoint analysis showed an increasing trend in homicide by firearm rate after enactment of the licensing portion of C-68 	No evidence of method substitution
			Covariates: median age of population, population attributed to immigration, population per police officers, rate of prison incarceration, rate of unemployment, % of 15-24 yr old population in low income bracket, % of total population in low income bracket, Gini index of equality	
Linteau (2013)	C-68	Yes	 Gradual decline in firearms homicide rate was observed in homicides committed with long guns (rifle, shotgun) 	No substitution effect was observed
McPhedran (2013)	C-68	No	 ARIMA modelling showed no effect on domestic firearm homicide ZA test for males showed no significant breaks in firearm homicide time series ZA test for females showed significant breaks in firearm homicide time series but these breakpoint occurred prior to Bill C-68 	None reported
Langmann (2020)	C-17	No	No effect on male or female homicide rates	None reported
	C-68	No	No effect on male or female homicide rates	None reported
			Covariates: province/territory, year, % license holders, alcohol consumption, unemployment rates, % aboriginal population, % low income persons	

SE, standard error; ARIMA, autoregressive integrated moving average; ZA, Zivot-Andrews. ¹Significance of results are reported verbatim from the original article.