Twenty-five years ago, on Sunday, April 28, 1996, a 28-year-old man used a Colt AR-15 semiautomatic rifle to kill 35 people in the quiet tourist town of Port Arthur, tucked away in the southeast corner of Tasmania, a small island off mainland Australia. The events of that day launched one of the world’s most powerful natural experiments in firearm-injury prevention.

Victoria (Australia’s second-most populous state) had previously tightened its firearm law after mass shootings in the region. But in most of the country, firearm policies had been changed very little in the decades before 1996. Within 2 weeks after the Port Arthur shooting, however, state and territory governments and the federal government had all agreed to a new firearm-regulation standard that involved implementing or strengthening gun-owner licensing, firearm registration, safe-storage policies, and suicide-prevention programs.

As part of the policy changes, the government also announced a mandatory buyback program for newly prohibited firearms. Over the next 18 months, 659,940 semiautomatic rifles and shotguns were purchased from residents and destroyed. The total cost of the program — AU$500 million (U.S.$361 million at the 1997 exchange rate) — was paid for by a one-time levy that cost taxpayers an average of $15 each. Tens of thousands of gun owners also voluntarily turned in nonprohibited firearms with no compensation.

These policy changes have had a substantial and positive effect on gun violence in Australia. In the 20 years leading up to and including the 1996 Port Arthur massacre, there were 11 mass shootings (defined as shootings in which five or more people, not including the perpetrator, were killed) in the country. In the 22 years that followed, there were no such incidents. Between 1979 and 1996, average annual firearm-related mortality was 3.6 per 100,000 people; after the policy intervention, it dropped to 1.2 per 100,000 people between 1997 and 2013 (see graph). Firearm-related mortality had already been falling in Australia, but changes in the rate of firearm-related death accelerated from an average decrease of 3% per year before gun laws were upgraded to an average decrease of 4.9% per year afterward. There were sizable reductions in firearm-related suicides and homicides. The most noticeable drop was for firearm-related suicides (which account for about
70% of gun deaths), with no evidence of substitution in methods of suicide. Globally, Australia was reported to have one of the largest annual rates of change in the number of firearm-related deaths between 1990 and 2016.

Given potential confounding, it’s difficult to establish a direct link between the 1996 legislation and changes in firearm-related mortality. The number of non-firearm suicides and homicides has also fallen during the past quarter-century in Australia. Reductions in gun deaths, however, have been much more substantial: between 1997 and 2013, there was a 55% reduction in the firearm-related suicide rate, as compared with a 16% reduction in the nonfirearm suicide rate, and a 62% reduction in the firearm-related homicide rate, as compared with a 44% reduction in the nonfirearm homicide rate. Moreover, the drop in firearm-related deaths was largest in states where the most guns were surrendered and smaller than average in Victoria, which had already restricted access to semiautomatic long guns. A rare-events model provided strong evidence that the absence of mass shootings in Australia between 1997 and 2017 wasn’t merely a continuation of a pre-existing pattern. No other policy has been suggested to explain the large reduction in firearm-related mortality after the national revision of gun legislation.

As compared with the United States, Australia has fewer guns per capita, stronger gun regulations, and far lower firearm-related mortality. Studies have found that a country’s estimated rate of firearm ownership is associated with its rates of firearm-related suicide and homicide. The effect of gun availability on violent death is substantial. For example, an international meta-analysis of intimate partner violence perpetrated by men found that having access to a gun was linked to an increase by more than a factor of 10 in the likelihood of killing a partner (as opposed to committing nonfatal violence).

Although the scale of the challenge is clearly different in the United States than in Australia, the Australian experience provides important lessons for the United States and other jurisdictions with high rates of gun violence. This example demonstrates that taking a public health approach to firearm-injury prevention by reducing access, strengthening regulation, and engaging the community can reduce gun deaths. It also shows that after mass-shooting incidents, countries have an opportunity to improve policies. Australia’s policy change used a substantial amount of the relatively new — and right-leaning — Prime Minister John Howard’s political capital. The support of many conservatives was crucial and was secured by opinion polls showing overwhelming support for firearm regulation and by media pressure. Gun-policy reforms were supported by all major political parties, whereas conservative parties in many other countries staunchly oppose such reforms. The success of firearm regulation became a source of pride for many Australians.

Mass shootings account for a small proportion of firearm-related deaths, but they tend to receive a substantial amount of media coverage and can focus the attention of the public and politicians on gun violence more broadly. The legislation’s primary goal was to reduce access to the semiautomatic firearms that were responsible for the majority of
Vaccination plus Decarceration — Stopping Covid-19 in Jails and Prisons

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Covid-19 has exposed the inadequacy of the public health infrastructure in the United States and forced us to confront associated biosocial dynamics that are driving the pandemic, including poverty, structural racism, distrust, unequal access to health care, and other social sources. But perhaps no collective preexisting condition has been more acute and preventable than that associated with the U.S. system of mass incarceration. U.S. jails and prisons house nearly 25% of the world’s incarcerated population even though the United States accounts for only 4.2% of the global population. Because there is constant movement in and out of jails and prisons — where more than 620,000 Covid-19 cases have already been documented despite notable deficiencies in testing, transparency, and oversight — these facilities operate as epidemiologic pumps. Not only do carceral...