Why Limiting Police Raids Decreased Criminal Violence in Rio de Janeiro

Research Question

What impact does a restriction on aggressive policing tactics have on violence, and why?

Motivation

The relationship between aggressive policing and violence is unclear:

- Classic theories of deterrence suggest that more policing decreases violence,
- Yet there is mounting evidence that *mano dura* policies in Latin America have backfired.

This paper looks at how changes in police violence disrupt the criminal violence equilibrium.

Theory

I argue that violent police raids **accelerate** the rate of territorial conquest between criminal groups.

 \longrightarrow The absence of police raids *slows* the rate

of criminal conflict and *reduces* violent crime.

Research Design

The Supreme Court of Brazil temporarily banned militant *police raids* in Rio de Janeiro after:

- The police assassination of a child
- Subsequent protests against police brutality

The drop in police raids (*operations*) was instant:

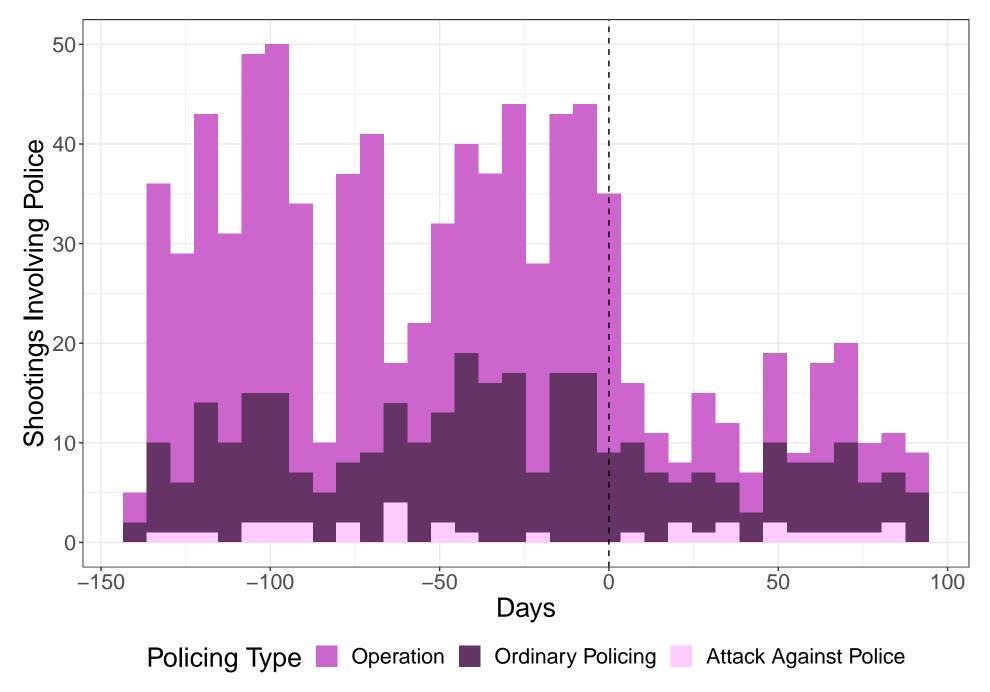


Figure 1: Types of Shootings Involving Police

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Main Findings

ban on aggressive policing decreased **police killings** by 66% and **civilian homicides** by 19%.

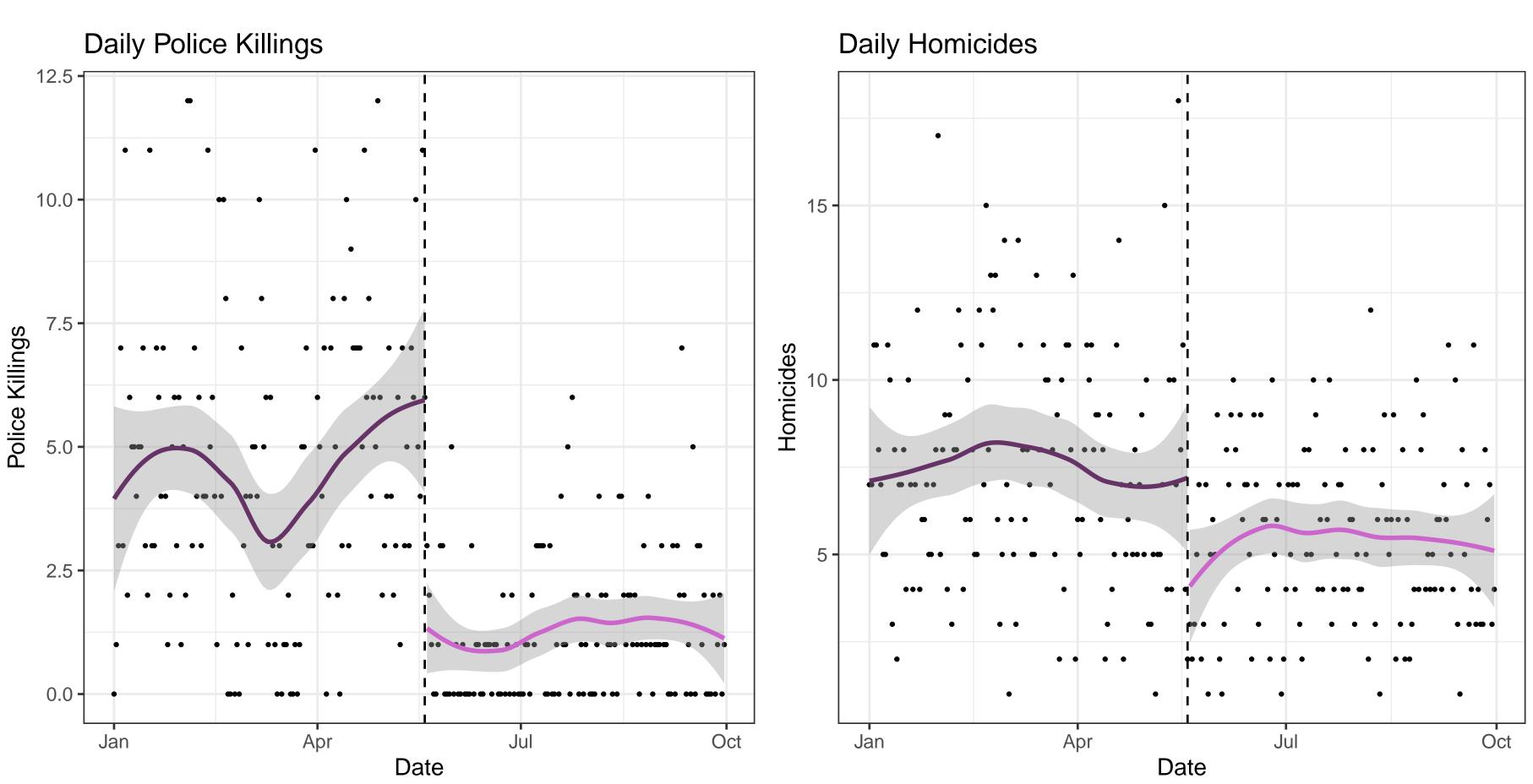


Figure 2: Police Killings and Homicides after the Ban on Police Raids

This figure represents the daily totals for each crime type starting on January 1, 2020. Each plot has a vertical dashed line drawn on May 19, 2020. The curves are the predicted number of incidents, generated by locally weighted (LOESS) regression and without covariate adjustment.

Estimation Strategy

DataDaily crime statistics (police killings, homicides, other violent and nonviolent crimes)	Homicides decrease by at least 19% following ban on police raids and are robust to various spe fications:	
 Daily shootings (officer's presence at shooting, deaths, injuries, motive) 	Bandwidth Polynomial 30 days 60 days 90 days Linear -0.063*** -0.030** -0.020*	
Interrupted time series $Y_{it} = \alpha + \beta Ban_t + f(days_t) + \lambda_d + \gamma_m + \pi_i + u_{it}$	Quadratic -0.094*** -0.053** -0.040** Cubic -0.056 -0.098*** -0.060*** I run the same models for: -0.056 -0.098*** -0.060***	
 Y_{it}: Homicides, police killings, shootings Ban_t: indicator equal to one after the assassination f(days_t): global polynomial Controls: day of week (λ_d), month (γ_m), police precinct (π_i) Standard errors are clustered at the precinct level 	 Police killings, and find a negative effect Police shootings, and find a negative effect Property crimes, and find no effect The police shootings/killings models serve as a <i>n</i> nipulation check on the treatment, and the prerty crime models indicate that property crime radid not change in response to the ban. 	

Results

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maoroprates

I test for model dependence by estimating two generalized difference-in-differences designs, comparing Rio de Janeiro to 1) Recife and 2) Rio de Janeiro in 2019 as control conditions.



Mechanism

The *absence* of police raids lowers the rate of criminal warfare through two mechanisms:

• Slowing the territorial diffusion of conflict: police raids can lead to a "domino effect" of takeovers and turf wars between criminal groups

• Conflict becomes more predictable: the absence of surprise police raids means that criminal

groups will be able to better predict their future conflicts and minimize violence

Territories more targeted by police raids experienced the greatest decreases in homicides and shootings and support with qualitative evidence:

Table 1:Effect of Ban in Heaviest Policed Areas

Variable	(Linear)	(Quadratic)	(Cubic)
Homicides	-0.099*	-0.173*	-0.097
Shootings	-0.193**	-0.209*	-0.225

Robustness

Several robustness checks support the main results:

• DV as an indicator, logged DV

• Poisson specification

• Various bandwidths and polynomial fit

Placebo tests control for the following variables:

• Social unrest: I find no effect of assassinationrelated unrest in shootings in a comparable city. • Covid-19: Homicides did not change after the initial shock of Covid-19-related and mobility is mooth around the cutpoint.

Contact Information

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