Improving Security through Concentrated Policing in Bogotá, Colombia

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Sector(s): Crime, Violence, and Conflict, Political Economy and Governance

Ubicación: Colombia

Muestra: 1,919 high-crime streets in Bogotá

Initiative(s): Governance Initiative (GI)

Grupo objetivo: Urban population

Resultado de interés: Violence Crime

Tipo de intervención: Disorder policing Hot spots policing

Número de registro del AEA RCT Registry: AEARCTR-0001156

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Police forces in cities tend to focus their efforts on the highest-crime areas, but increasing state presence in the highest crime spots may simply displace crime to other areas, leaving overall crime levels unchanged. In Bogotá, Colombia, researchers partnered with the city to measure the impact of either concentrated policing, increased municipal clean-ups, or both on crime reduction and displacement. The evaluation found that the two approaches reduced crime on targeted streets when implemented together, but not when implemented alone. While most crime, particularly property crime, appears to have shifted to nearby streets, there is suggestive evidence that violent crimes, especially homicides and rapes, decreased citywide as a result of the intervention.

Problema de política pública

In most cities around the world, crime is concentrated in a small number of places, which police often call crime “hot spots.” Hot spots policing, in which police spend increased time in higher-crime areas, has become one of the most common approaches to crime reduction—more than 90 percent of police agencies in the United States use a version of this method. A related geography-based approach is for municipalities to spend increased time cleaning up especially disordered areas of the city. This technique follows the “broken windows” hypothesis, which suggests that trash, graffiti, broken windows, and other signs of disorder suggest to would-be criminals that there is little law enforcement in the area, thereby making crime occurrence more likely.

While several studies have suggested that these geography-based approaches are effective,[1] it is difficult to study their full impact. Such strategies may reduce crime in hot spots, but they may also unintentionally encourage criminals to move to other,

less-policed areas, leaving the overall level of crime in the city unchanged. To understand better the implications of crime spillovers, it is important to analyze large interventions. This study is, by an order of magnitude, the largest hot spots policing experiment ever conducted.

Additionally, most of the hot spots policing evidence base has been developed in the US and other developed countries. Alongside a hot spots policing intervention in Medellin (where a sub-sample of this study's researchers is participating), these are two of the first hot spots policing experiments in Latin America. This study contributes new evidence on whether hot spots policing and municipal clean-ups can reduce—rather than simply displace—crime.

Contexto de la evaluación

Like in many major cities, crime in Bogotá, Colombia is spatially concentrated. Two percent of Bogota's 137,000 street segments, a block of street between two intersections, accounted for all homicides between January 2012 and September 2015. During the same period, these streets received roughly 10 percent of police time and limited public services.

Although the security situation has improved in recent years, crime in Bogotá remains a major social concern. The homicide rate in Bogotá was 15.6 per 100,000 inhabitants in 2016, comparable to the rate in Chicago (15 homicides per 100,000 inhabitants), but considerably lower than some of the world's most violent cities, such as Caracas (120 homicides per 100,000 inhabitants). Moreover, safety and security for Bogotá residents has lagged behind the large improvements for those living in other areas of Colombia. In fact, in a 2015 ranking by the Economist Intelligence Unit Bogotá was deemed to have the third-worst quality of life in Latin America, surpassing only Guatemala City and Caracas.[2] When Bogotá's mayor Enrique Peñalosa took office in January of 2016, he promised to confront crime and violence in the city's 750 highest-crime streets.

Police officers standing at police station in Colombia.

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Detalles de la intervención

Researchers worked with Innovations for Poverty Action, Bogotá's police department, and Bogotá's mayor's office to conduct a randomized evaluation measuring the impact of increased policing and municipal clean-ups on crime and citizens' perception of the police in targeted and adjacent areas. After working with police to identify 1,919 of the highest-crime street segments in Bogotá, researchers randomly assigned the street segments to one of four groups:

- *Hot spots policing*: For eight months, police increased the time they spent patrolling from 90 to almost 180 minutes per day. Commanders told patrols to enter hotspots located near bars and night clubs three times during the day and three times at night. In other hotspots, commanders instructed police to enter five times during the day and once at night. Beyond spending extra time, police did not alter any of their usual behavior or activity while patrolling these areas.
- *Municipal clean-ups*: The Mayor's office instructed the contractors charged with municipal maintenance to diagnose issues in these street segments and then deliver the appropriate services. The teams repaired street lights, cleared non-artistic graffiti, and collected garbage.
- *Hot spots policing and municipal clean-ups*: Both municipal teams as well as police spent more time in these areas.
- *Comparison*: Police and municipal teams did not receive any special instructions about how to work in these areas.

Researchers constructed an aggregate measure of insecurity by combining Bogotá residents' perceived incidence of crime, residents' self-reported crime victimization, and police reports. To measure effects on neighboring streets, researchers also collected data from street segments located within 250- and 500-meters radii of targeted hot spots (previous studies have focused mainly on spillovers of about two blocks, or 150 meters).

Resultados y lecciones de la política pública

Overall, the evaluation found that when the city concentrated police patrols and cleaned up streets, crime went down on the high-crime streets that directly received those services. Most crime appears to have displaced to nearby streets, however, offsetting the positive results. There is some indication violent crime went down overall, but further research is needed to be conclusive.

Neither hotspot policing nor municipal clean-ups led to decreases in crime when implemented individually. It is possible that each intervention alone had no effect on reported crimes in targeted streets.

However, there is evidence crime simply moved to nearby streets, offsetting most of the positive results. The results suggest that crime may have slightly increased in each of the more than 77,000 streets located within 250 meters of treated streets. When the direct and displacement effects are added together, the results rule out more than a 2-3 percent improvement in city-wide crime.

Property crime, more than violent crime, appears to have displaced to other areas. The results suggest that crime displacement was driven mainly by (economically-motivated) property crime, not by violent crime. Violent crimes seem to fall in aggregate, though these results are ambiguous and should be taken with caution. There are indications that homicides and rapes, some of the costliest crimes, went down citywide by 5 percent.

Combining both interventions together led to a large decrease in reported crimes on targeted streets. There was a decrease of about 57 percent in the number of reported crimes in streets that received with both intensive policing and municipal services at the same time. This estimate is based on a small number of streets; however, hence we take these interaction effects with caution.

Given the challenges of precisely measuring crime spillovers and displacement, further research––particularly a randomized evaluation across cities that estimate city-wide impacts––is needed to better understand whether place-based tactics are effective at crime reduction.

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1. Braga, A., A. V. Papachristos, and D. M. Hurreau. 2012. "An ex post factor evaluation framework for place-based police interventions."*Campbell Systematic Reviews* 8, 1–31.

2. Associated Press in Bogotá. 2015. "Former Bogotá mayor re-elected after 14 years, defeating Colombia's left." *The Guardian.* https://www.theguardian.com/world/2015/oct/26/colombia-bogota-mayor-enrique-penalosa-re-elected