

Policing Gun Violence: The case for investing in investigations

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Forthcoming: *Criminology & Public Policy*, by PJ Cook, AA Braga,
BS Turchan, and LM Barao

Arrest rates for gunshot cases

Higher arrest rate if victim dies

Homicide > agg assault with gunshot wound

	Homicide arrest	Agg Ass GSW arrest	Median Gap
Milwaukee 2006-16	56-78%	13-31%	47%
Chicago 2010-16	26-46%	5-11%	28%
Durham 2015	50%	10%	40%

Why the fatal-nonfatal **arrest gap**?

Durham, NC interviews with 17 PD investigators

Most respondents mention resources:

Case load, access to crime lab

(Cook, Ho, and Shilling 2017)

But: That contradicts influential **RAND study**

(Chaiken Greenwood Petersilia 1976)

*Most arrests are either on-scene or follow
eyewitness identification –*

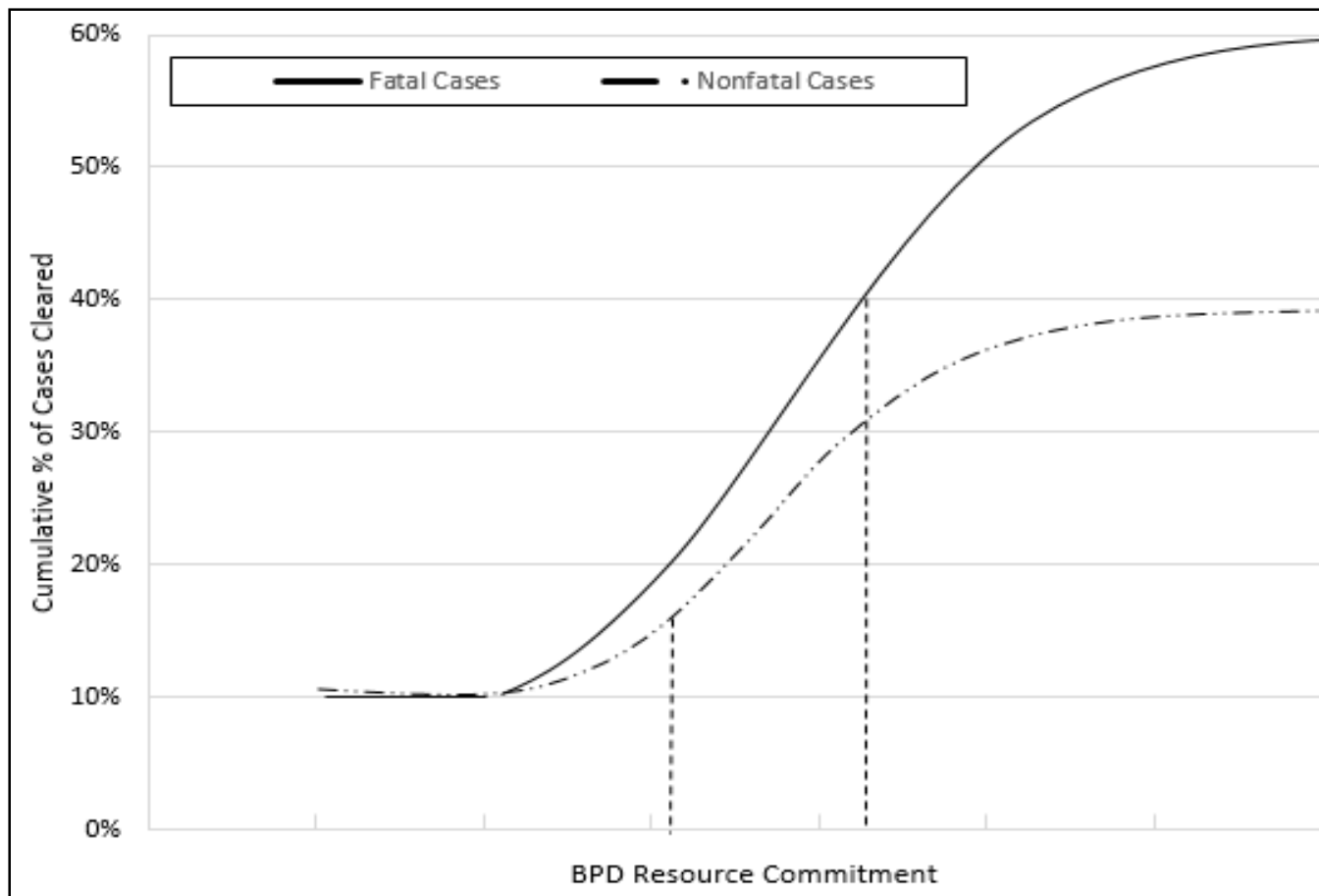
Detective work is of little value

Our Quasi-experiment

1. Fatal and nonfatal gunshot cases are similar, so “other things equal”

(Braga and Cook, 2018, JAMA NO)

2. Far more investigative resources if **fatal**
3. Question: **do extra resources account for the arrest gap?** (or better cooperation?)
4. **Policy context:** preventive value of an arrest
nonfatal = fatal



Boston Police Dept data

Period: 2010 – 2014

Unit of observation: the “case”

Sample: 204 homicide cases (all)

231 nonfatal cases (1/4, random)

Data from records: Circumstances, Victim characteristics, Number of Victims, arrest info

Data from Interviews with detectives: key to success

Finding 1

Fatal and nonfatal cases are **statistically indistinguishable** in most respects

So:

We can think of gun homicides as a **random drawing** from the universe of shootings

Finding 2

Clearance rates follow similar pattern for fatal and nonfatal shootings: **Circumstances matter**

	Fatal	NonFatal
Gang/drug	40% (163)	12% (158)
Personal dispute	67% (21)	56% (25)
Domestic	100% (3)	100% (5)
All	45% (204)	20% (231)

Finding 3

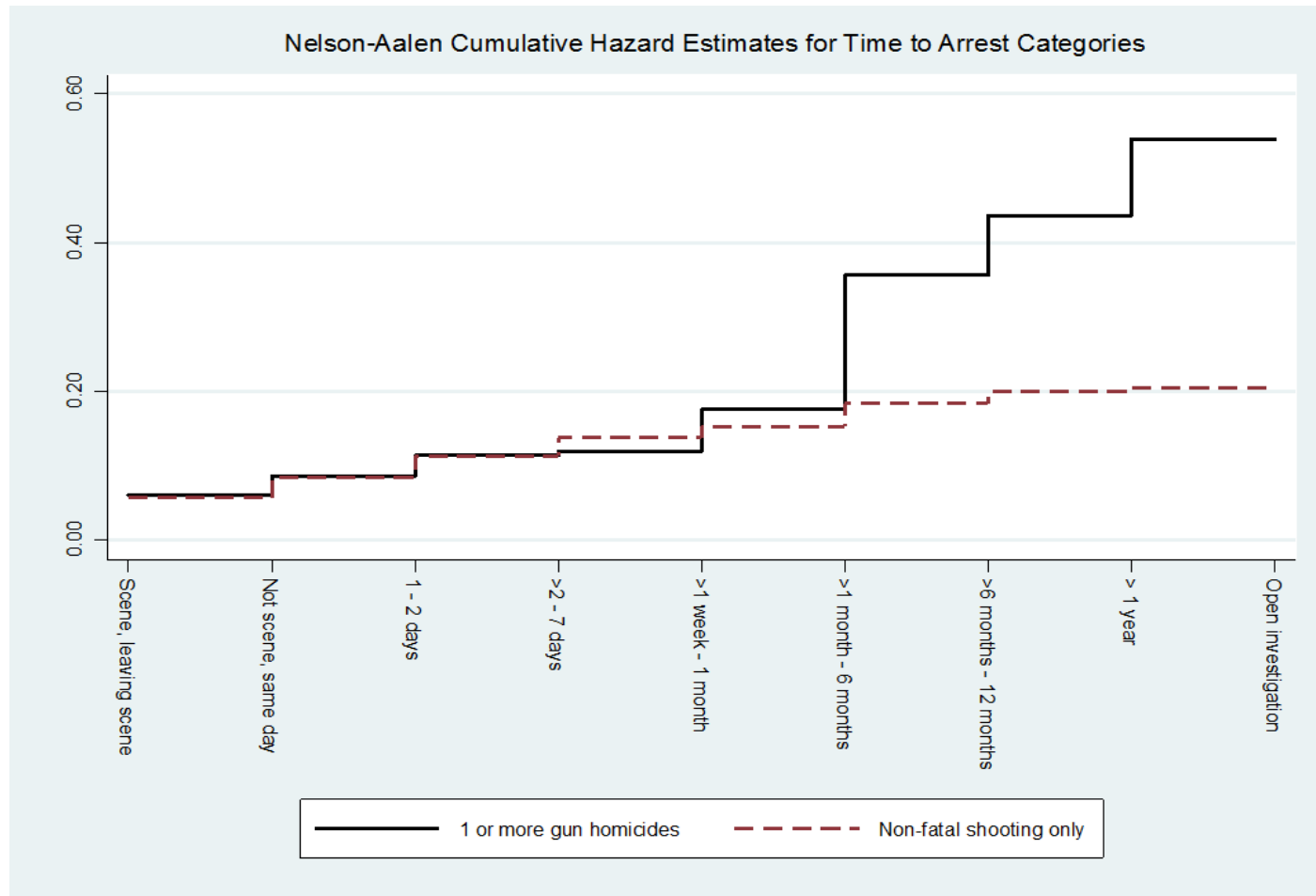
More evidence collected in fatal cases

Crime scene investigations – counts (medians)

On-Scene Investigation Fatal Vs. NonFatal		Subsequent investigation Fatal vs. NonFatal	
Interviews	7 vs. 4	Interviews	2 vs. 0
On-line checks	4 vs. 2	Search warrants	1 vs. 0
Officers	3 vs. 1	On-line checks	3 vs. 1
Videos collected	2 vs. 1	Latent prints	7 vs. 3
		Ballistic tests	9 vs. 5

Finding 4

identical arrest rate for 1st week



Finding 5

Eyewitnesses are key to success

	Witness from scene		Survivor ID's shooter	
	Fatal	NonFatal	Fatal	NonFatal
% of Cleared cases	62%	65%	7%	12%
% of All cases	27%	12%	3%	2%

Tentative Interpretation

- Shooting cases differ widely in **intrinsic difficulty of solution (IDS)**
- Fatal and nonfatal have **similar IDS distributions**
- In both, the **easy cases** are solved quickly
- **Extra investigation resources matter** for more difficult cases
- Increasing arrests is **less costly for nonfatal** cases than fatal