

The risk of police-involved death by race/ethnicity and place, US 2012 - 2018

Frank Edwards^{1,2} Michael Esposito ³ Hedwig Lee⁴

August 13, 2018

¹Bronfenbrenner Center for Translational Research, Cornell University

²School of Criminal Justice, Rutgers University - Newark

³Institute for Social Research, University of Michigan

⁴Department of Sociology, Washington University, St. Louis

A new set of estimates of the risk of being killed by police

- Mens' mortality risk two times higher than official data suggest
- Police kill 2.8 men per day
- Police responsible for 8% of all adult male homicides
- Risk is unequal: Black risk/White risk = 3.4, Latino risk / White risk = 1.6

A new set of estimates of the risk of being killed by police

- Mens' mortality risk two times higher than official data suggest
- Police kill 2.8 men per day
- Police responsible for 8% of all adult male homicides
- Risk is unequal: Black risk/White risk = 3.4, Latino risk / White risk = 1.6

A new set of estimates of the risk of being killed by police

- Mens' mortality risk two times higher than official data suggest
- Police kill 2.8 men per day
- Police responsible for 8% of all adult male homicides
- Risk is unequal: Black risk/White risk = 3.4, Latino risk / White risk = 1.6

A new set of estimates of the risk of being killed by police

- Mens' mortality risk two times higher than official data suggest
- Police kill 2.8 men per day
- Police responsible for 8% of all adult male homicides
- Risk is unequal: Black risk/White risk = 3.4, Latino risk / White risk = 1.6

Police killings are common

July 28, 2018

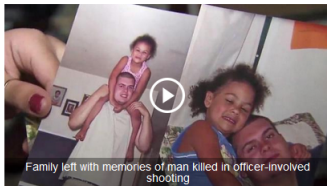
Arthur Kenzie Garner, 33, shot by Moore County (NC) Sheriff's Deputies

'Help us, not kill him:' Family called 911 before fatal officer-involved shooting in Moore County

Tags: [Moore County](#), [officer-involved shooting](#), [crime scene](#), [crime](#), [crime victim](#)

Posted 12:38 p.m. Tuesday

Updated 10:38 p.m. Tuesday



Family left with memories of man killed in officer-involved shooting

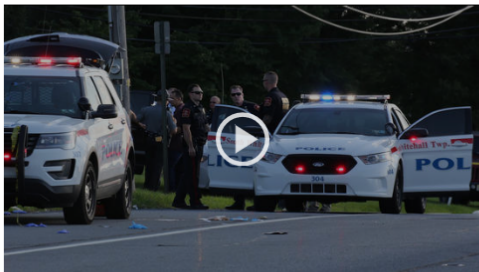
By Kasey Cunningham, WRAL reporter

ABERDEEN, N.C. — Authorities on Tuesday released the names of four deputies with the Moore County Sheriff's Office who were at the scene when a man was shot

July 28, 2018

Joseph Santos, 44, shot by South Whitehall Township (PA)
Police

Authorities release ID of man shot, killed by South Whitehall police officer



Authorities say a South Whitehall Township, Pa., police officer who allegedly shot and killed a man is on paid leave. The shooting happened Saturday, July 28, 2018, on Hamilton Blvd., across from the Dorney Park amusement park.

By **Laurie Mason Schroeder** - **Contact Reporter**

July 28, 2018

Michael Neal, 32, shot by Ball (LA) Police

Man dead after officer-involved shooting in Rapides Parish



By News staff | Posted: Sat 9:49 PM, Jul 28, 2018



PINEVILLE, La. (LSP) - According to Louisiana State Police, one man is dead after a Saturday afternoon officer-involved shooting.

Name withheld, age unreported, shot by Aurora (CO) Police

Police Situation In Aurora Ends In Deadly Shooting In Adams County

July 29, 2018 at 11:39 am Filed Under: 64th Avenue, Adams County, Aurora, Aurora Police, Clay Street, Local TV, Officer-Involved Shooting



ADAMS COUNTY, Colo. (CBS4) - Aurora police say they were tracking a vehicle

FOLLOW US



OUR NEWSLETTER



Email address

Subscribe

MOST VIEWED

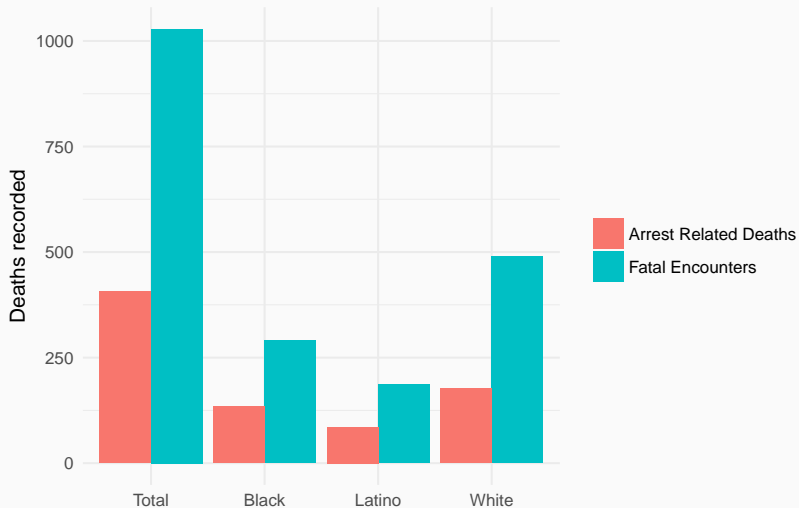
- 1 Baseball-Sized I Kills 3 Zoo Anim
- 2 2 Elderly Men E Attend Heavy N
- 3 Latest Colorad

The gaps in official data

Independent media-based data is more comprehensive

FATAL ENCOUNTERS DOT.ORG SPREADSHEET (See Read me tab)									
File Edit View Format Data Tools Address Help									
100% View only									
24568									
Temporary filter 1 Range: A1:AU24543									
	A	B	C	D	E	F	G	H	I
Read me	Subject's name	Latitude	Longitude	Agency(ies) involved in death	Cause of death	A brief description of the circumstances	Official disposition of	Link to news article or photo of official &	
7	24563 Alton Kenzie Gamera	35.1337654	-79.4782324	Moore County Sheriff's Office	Gunsht	Deputies were called shortly before 3 a	Pending investigation	https://www.wncn.com/more-sheriff-shoot-deputies	
8	24564 David Long	34.646862	-84.599638	Athens Police Department	Gunsht	Police said David Long had tried to bra	Suicide	https://newschannel9.com/news/local/police	
9	24565 Joseph Santos	40.576246	-75.350758	South Whitehall Township Police Department	Gunsht	A South Whitehall Township police officer	Pending investigation	http://www.esm.com/news/police/crim-nws-usa	
10	24566 Keith Crane	40.087411	-89.189388	Champaign Police Department	Gunsht	Police were called at 4:10 a.m. to resp	Suicide	http://www.news-gazette.com/news/2018/07/24/	
11	24567 Michael Neal	31.397116	-92.412407	East Polk Police Department	Gunsht	Michael Neal was shot and killed during	Pending investigation	https://www.kansascity.com/story/2018/07/24/	
12	24568 Name withheld by police	39.814403	-95.516543	Aurora Police Department	Gunsht	Aurora police were tracking a vehicle by	Pending investigation	https://detroit.cbslocal.com/2018/07/25/police/	
13	24569 Kevin P. Quinn	41.637604	-70.451806	Mathape Police Department	Vehicle	McKey A. Rivera, 22, was driving a Toyota	Unreported	https://www.bostonjoke.com/news/2018/07/23/	
14	24570 Mickey A. Rivera	41.637604	-70.451806	Mathape Police Department	Vehicle	McKey A. Rivera, 22, was driving a Toyota	Unreported	https://www.capedocs.com/news/2018/07/23/	
15	24571 Cynthia Fries	30.049509	-81.1227516	Savannah Police Department	Gunsht	Around 9:30 p.m. Savannah Police resp	Pending investigation	https://www.usm.com/stop-stones-by-lender-sh	
16	24572 John Clifton Hill	31.454087	-80.235213	Lancaster County Sheriff's Office	Gunsht	John Clifton Hill allegedly shot and killed	Suicide	https://www.kansascity.com/story/2018/07/25/	
17	24573 Lamar Richardson	41.683051	-83.5242039	Toledo Police Department	Gunsht	Police said they responded to a vehicle	Pending investigation	http://www.teddebible.com/Police/Fire/2018/07/	
18	24574 Daniel Hambrick	36.163562	-86.799922	Metropolitan Nashville Police Department	Gunsht	Officers reportedly saw a vehicle drivin	Pending investigation	https://www.newschannel5.com/Fire/2018/07/	
19	24575 Gavalynn "Gabbie" Mahuka	21.380829	-156.139643	Honolulu Police Department	Gunsht	Officers were seeing a temporary restrai	Pending investigation	http://www.kbtv.com/story/38741444/news/2018/	
20	24576 James Buford	36.984641	-84.043701	Springdale Police Department	Gunsht	Deputies from the county and Springdal	Pending investigation	https://www.foxnews.com/2018/07/27/ok-cars-re	
21	24577 Jesus Hernandez Manillo	47.303636	-122.240969	King County Sheriff's Office	Gunsht	A deputy was on patrol looking for park	Pending investigation	https://www.seattletimes.com/seattle/news/2018/	
22	24578 Kenneth Edwin Martell	42.343719	-88.1948579	Lakewood Police Department	Gunsht	Police said Kenneth Martell was shot at	Pending investigation	http://www.chicagotribune.com/wyburts/laurel-2018/	
23	24579 Sergio Acosta	31.870259	-118.366428	Redondo Beach Police Department	Gunsht	Officers responded around 4:10 p.m. to	Pending investigation	https://www.cbcsocal.com/news/2018/07/24/	
24	24580 William Earnest Brooks	33.677197	-83.685559	Watson County Sheriff's Office, Social Circle Police De	Gunsht	William Earnest Brooks, was allegedly r	Pending investigation	https://www.apc.com/news/crime-slaying-murder/	
25	24581 Brent Carl Dawood	34.491942	-114.317173	Lake Harasz City Police Department	Gunsht	around 2:51 a.m., police were dispatched	Pending investigation	https://dmm.com/news/2018/07/24/2018-mad-	
26	24582 Milton Perkins	35.055286	-90.060045	Murphy Police Department	Gunsht	Around 9:30 p.m., two officers were rep	Pending investigation	https://www.com/2018/07/28/2018-murphy-investigat/	
27	24583 Daniel Zekoff	34.675543	-110.0765691	Los Angeles County Sheriff's Department	Gunsht	Daniel Zekoff allegedly shot and killed h	Suicide	http://thadames.com/2018/07/28/suspect-bank/	
28	24584 Jose Luis Rodriguez	35.191555	-80.1789304	Amarillo Police Department	Gunsht	About 8 p.m., officers were at the Ameri	Pending investigation	https://abc7amarillo.com/news/2018/07/28/suspect-bank/	
29	24585 Michael Campbell	36.412404	-84.042136	Harper County Sheriff's Office, Tennessee Highway	Gunsht	Police received a call from a home arou	Pending investigation	https://www.wate.com/news/news/2018/07/28/	
30	24586 Richard Roosevelt Bahr	47.6461121	-117.3654562	Spokane County Sheriff's Office	Gunsht	A 9-1-1 caller reported that a badly inju	Pending investigation	https://www.spokanejournal.com/stories/2018/07/26/	
	24587 Sarah Wilson	36.028440	-76.268312	Chesterapeake Police Department	Gunsht	Police said Sarah Wilson shot and kil	Suicide	https://dailystar.com/news/local/crime-2018/	
31	24588 Joshua Dean Case	45.884711	-123.923813	Seward Police Department	Gunsht	Casey Dean Case was shot to death at	Pending investigation	https://www.kps.com/story/2018/07/26/	
32	24589 DeVaughne Deltra Rogers	29.917704	-82.122168	Burlington County Sheriff's Office	Gunsht	About 11:15 a.m., 45 bullets were sh	Pending investigation	http://www.jacksonville.com/news/2018/07/25/	
33	24590 Donna Lynn Allen	35.30474	-85.176422	Red Bank Police Department	Gunsht	Diver Donna Lynn Allen and a man alle	Pending investigation	https://wvel.com/2018/07/24/ab-investigates-fo/	
34	24591 Gregory Thomas Graham	35.042827	-76.964365	Fayetteville Police Department	Vehicle	Officer Ashton Lambert reportedly was	Pending investigation	http://abc11.com/pebastian-killed-in-crash-mob/	
35	24592 John Carlos Hartz-Perez a	39.07223	-76.52528	Montgomery County Police Department	Gunsht	Officer John Carlos Hartz-Perez was shot	Pending investigation	https://dva.com/news/crime/mex-kill-police-off/	
36	24593 Paul B. Meade	32.1615191	-82.015191	Bristol Police Department	Gunsht	A resident heard Paul B. Meade speak	Pending investigation	https://www.heraldtribune.com/news/crime-offic/	
37	24594 Rosalio Hernandez Ortega	36.1047552	-79.782303	Burlington Police Department	Gunsht	Rosario Hernandez Ortega was shot and	Pending investigation	http://www.thetimesnews.com/news/2018/07/24/	

Men killed by police per year in official and unofficial data

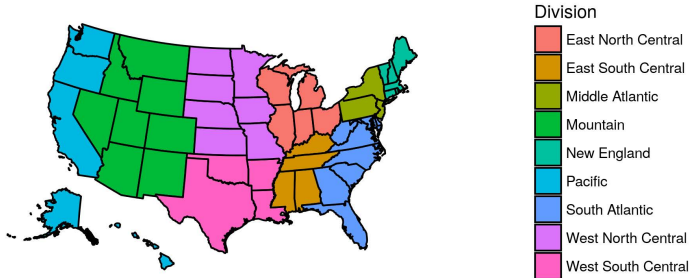


Estimating men's risk of being killed
by police by division, county
metro-type, and race/ethnicity

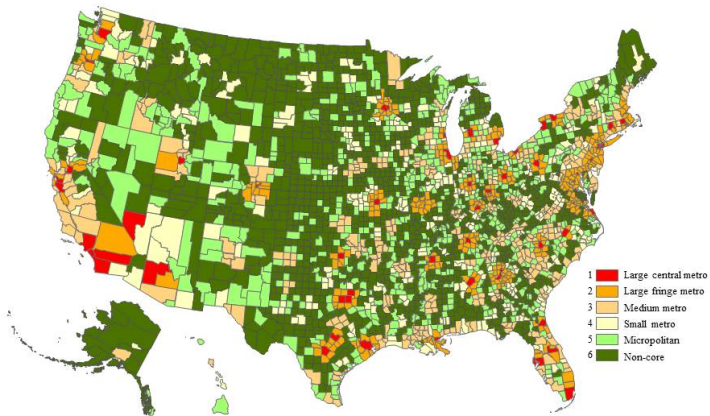
Simulating risk for rare events in places with small populations

county	type	region	pop_{blk}	$death_{blk}$	$rate_{blk}$	$risk_{blk}$
A	noncore	Pacific	10	1	10000	[0.5, 3.8]
B	noncore	Pacific	10	0	0	[0.5, 3.8]

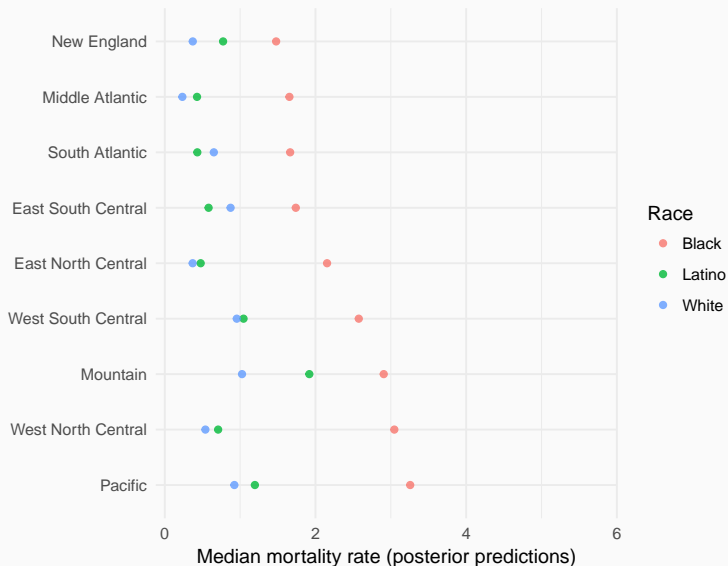
Census Divisions



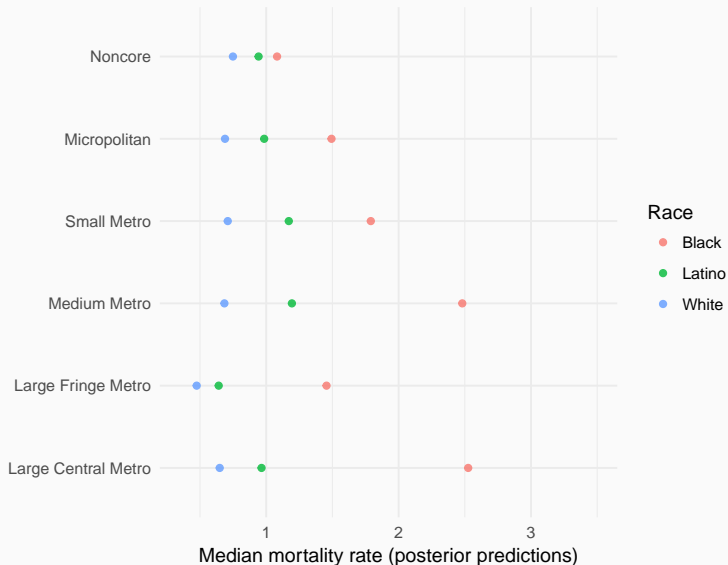
NCHS Urban-Rural Classification Scheme for Counties



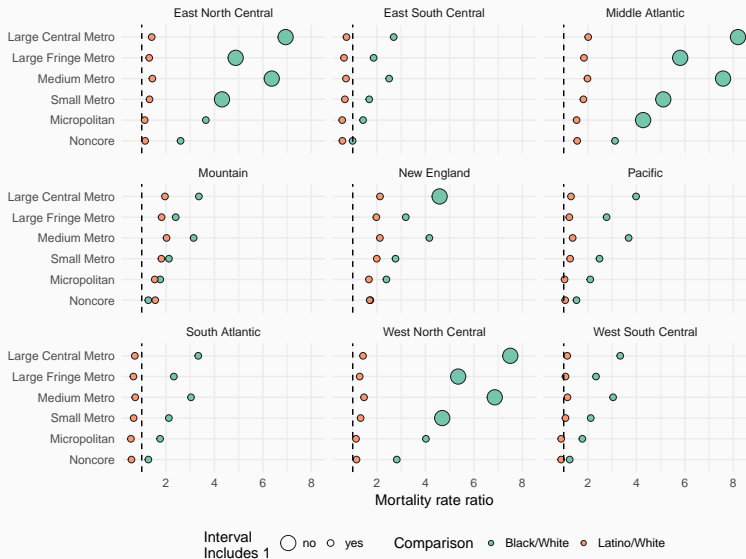
Risk by division: median posterior predictions



Risk by county type: median posterior predictions

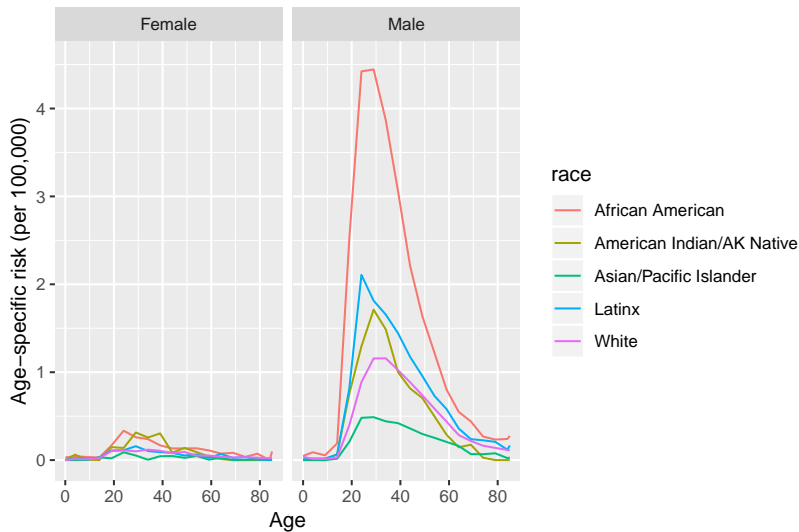


Inequality by division and county type

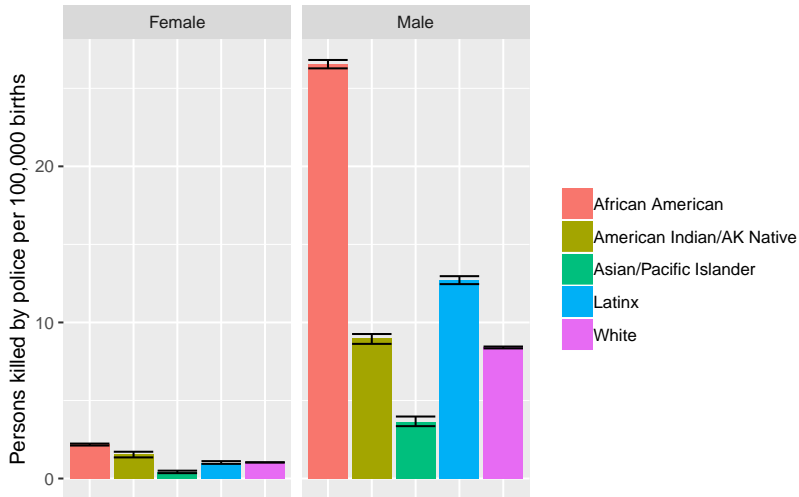


National lifetime and age-specific risks by race/ethnicity and gender

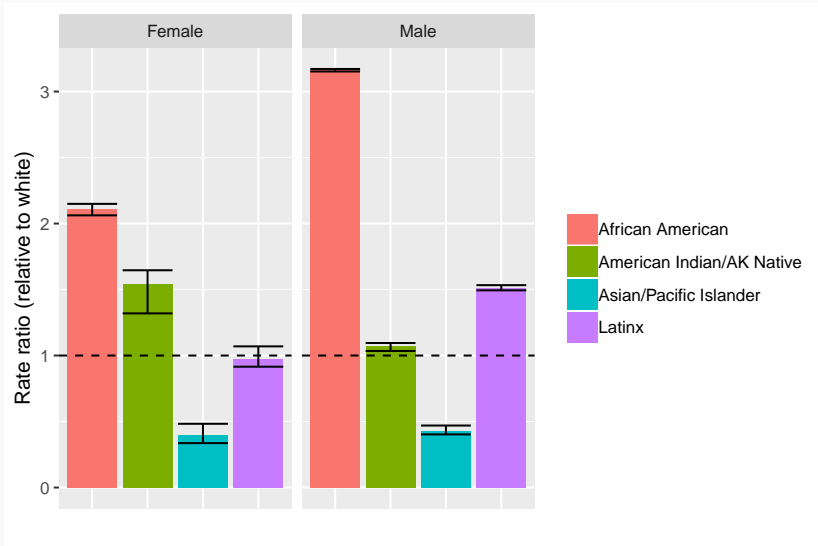
Age-specific risk of being killed by police



Lifetime risk of being killed by police



Inequality in lifetime risk of being killed by police



Implications and next steps

- These estimates are conservative
- Context is critical: risk depends on place, race, gender, age

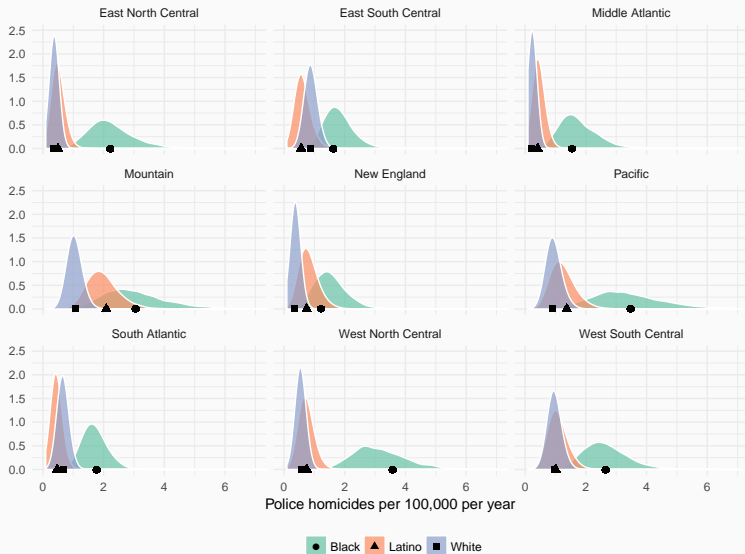
- These estimates are conservative
- Context is critical: risk depends on place, race, gender, age

- These estimates are conservative
- Context is critical: risk depends on place, race, gender, age

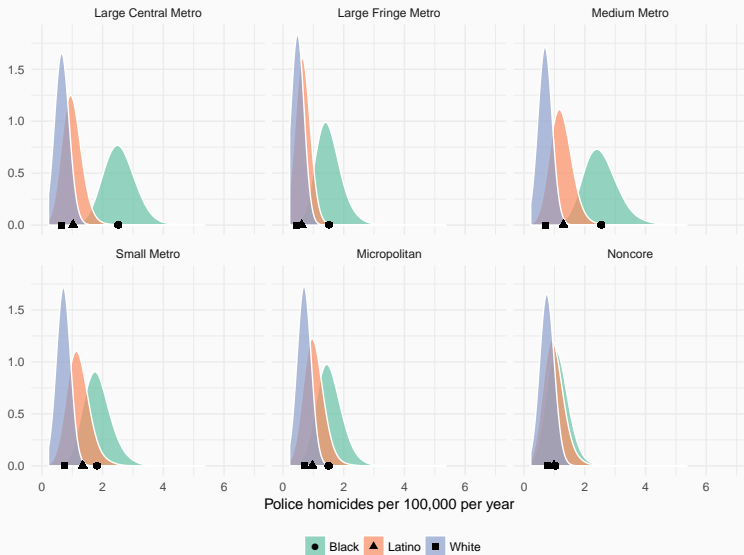
Thank you

Appendix

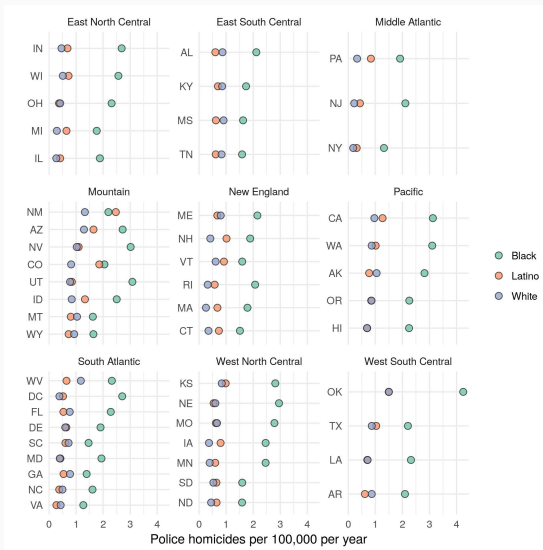
Risk by division: density of posterior predictions



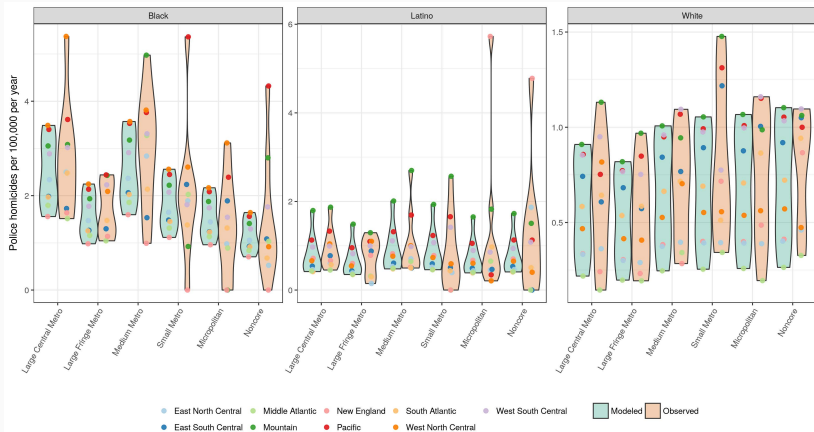
Risk by county type: median posterior predictions



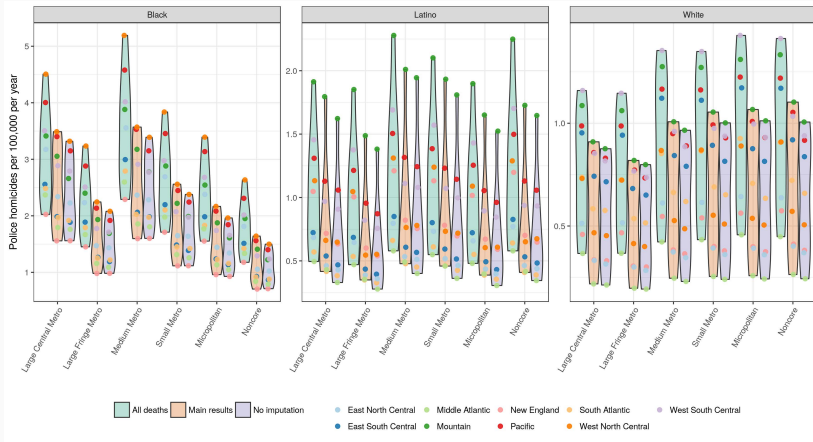
Median predicted state-level mortality risk



Effects of model specification on risk estimates



Effects of sample selection on risk estimates



Performance of imputation models

