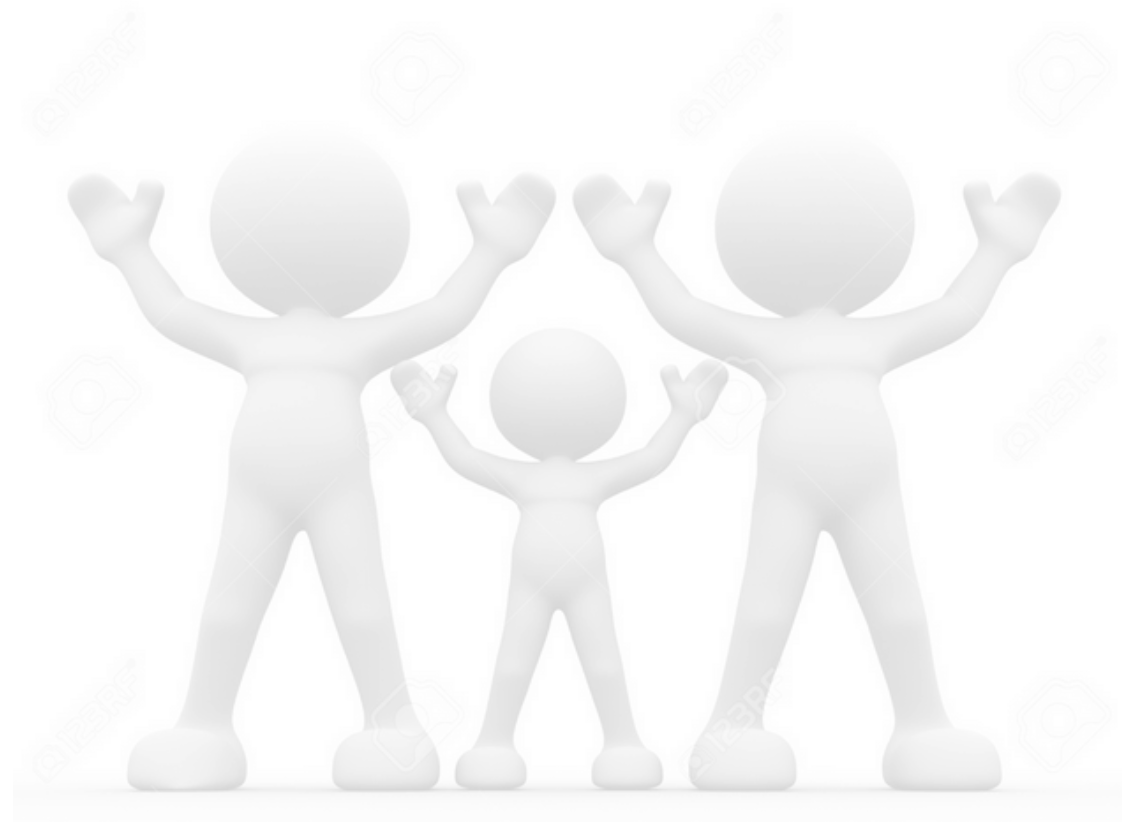


# Pandemics, Policing, and Protest

On Racism and Health



July 14, 2020

Rhea W Boyd MD, MPH

California Primary Care Association

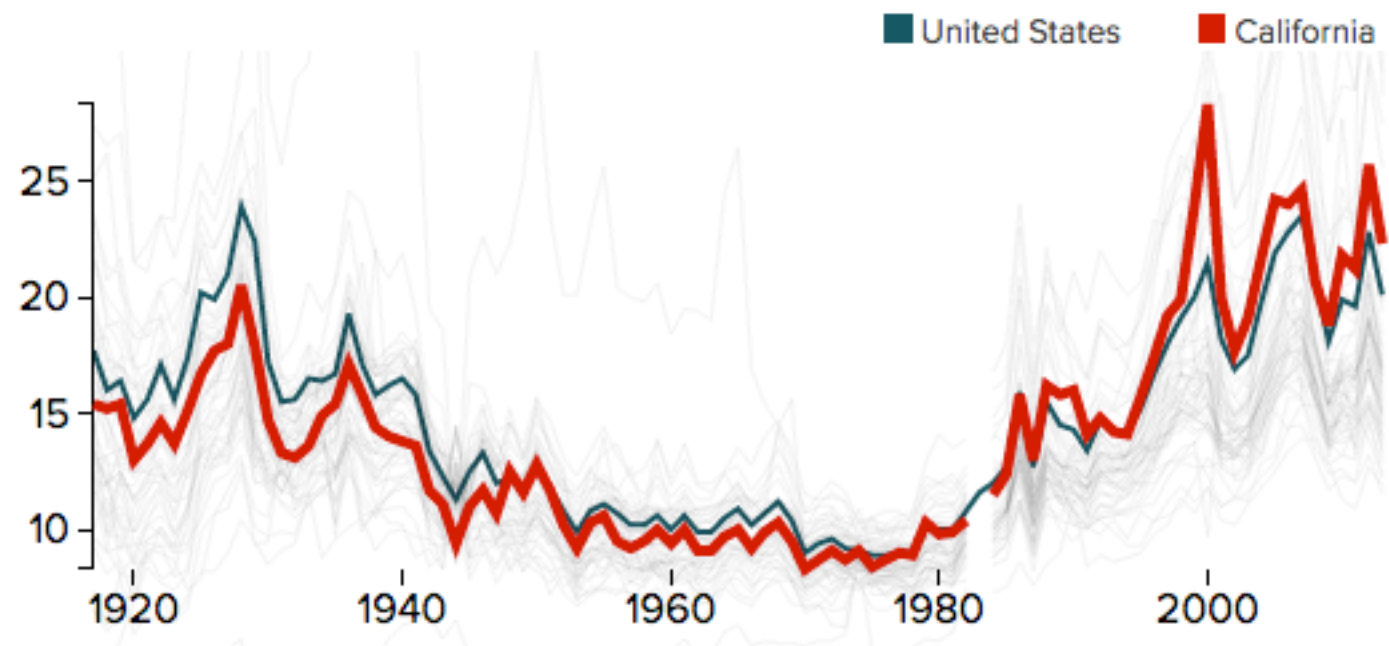
@RheaBoydMD

Neither I nor my immediate family members have a personal financial relationship with a manufacturer of products or services that will be discussed in this presentation.

# Inequality is growing.

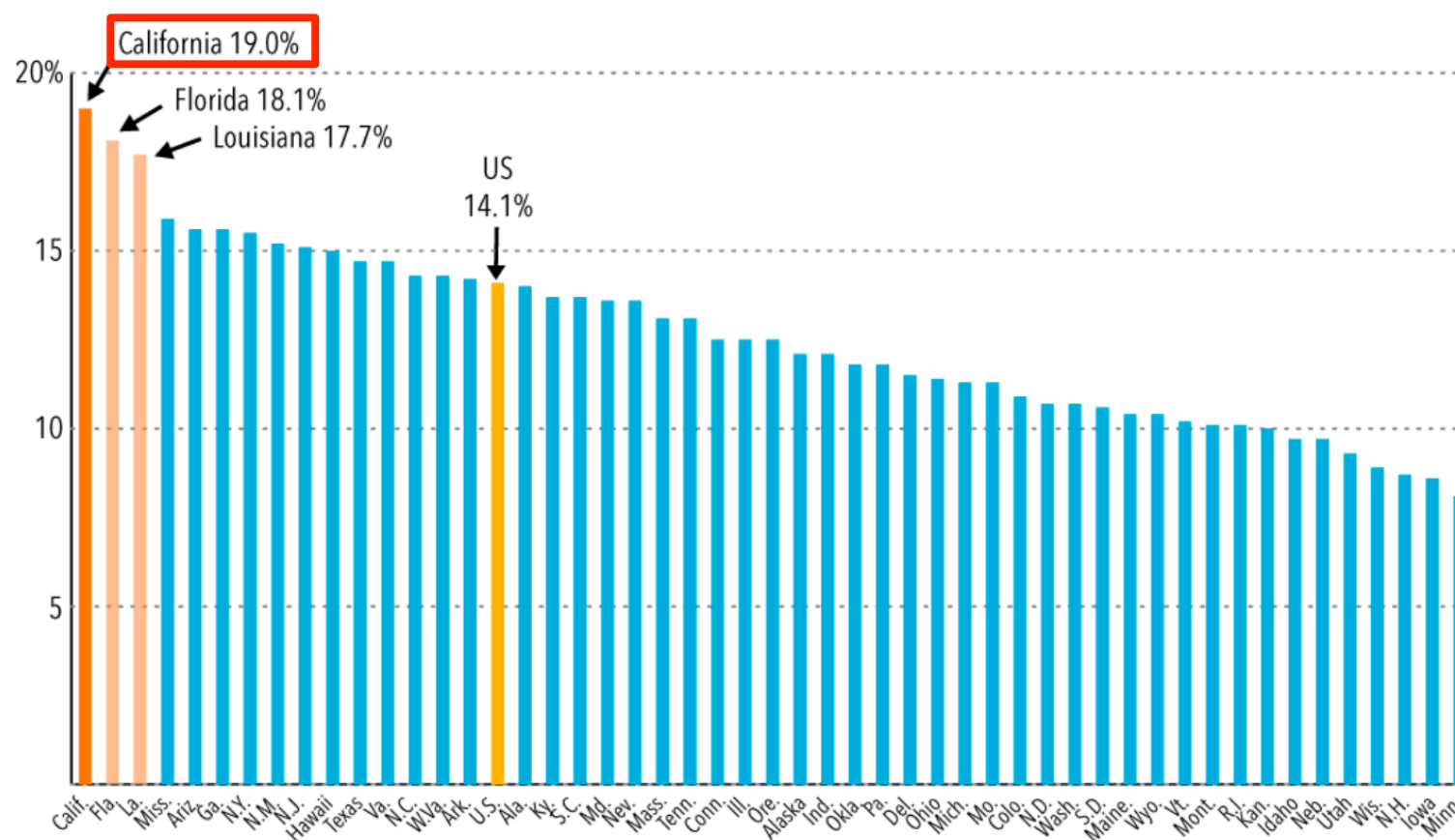
## Share of income captured by the top 1%, 1917–2013

The share of all income held by the top 1% in recent years has approached or surpassed historical highs.



## California Has One of the Highest Poverty Rates of the 50 States Under the Supplemental Poverty Measure (SPM)

State Poverty Rate Under the SPM, 2015-2017



Note: Poverty rates for California, Florida, and Louisiana are not statistically different.

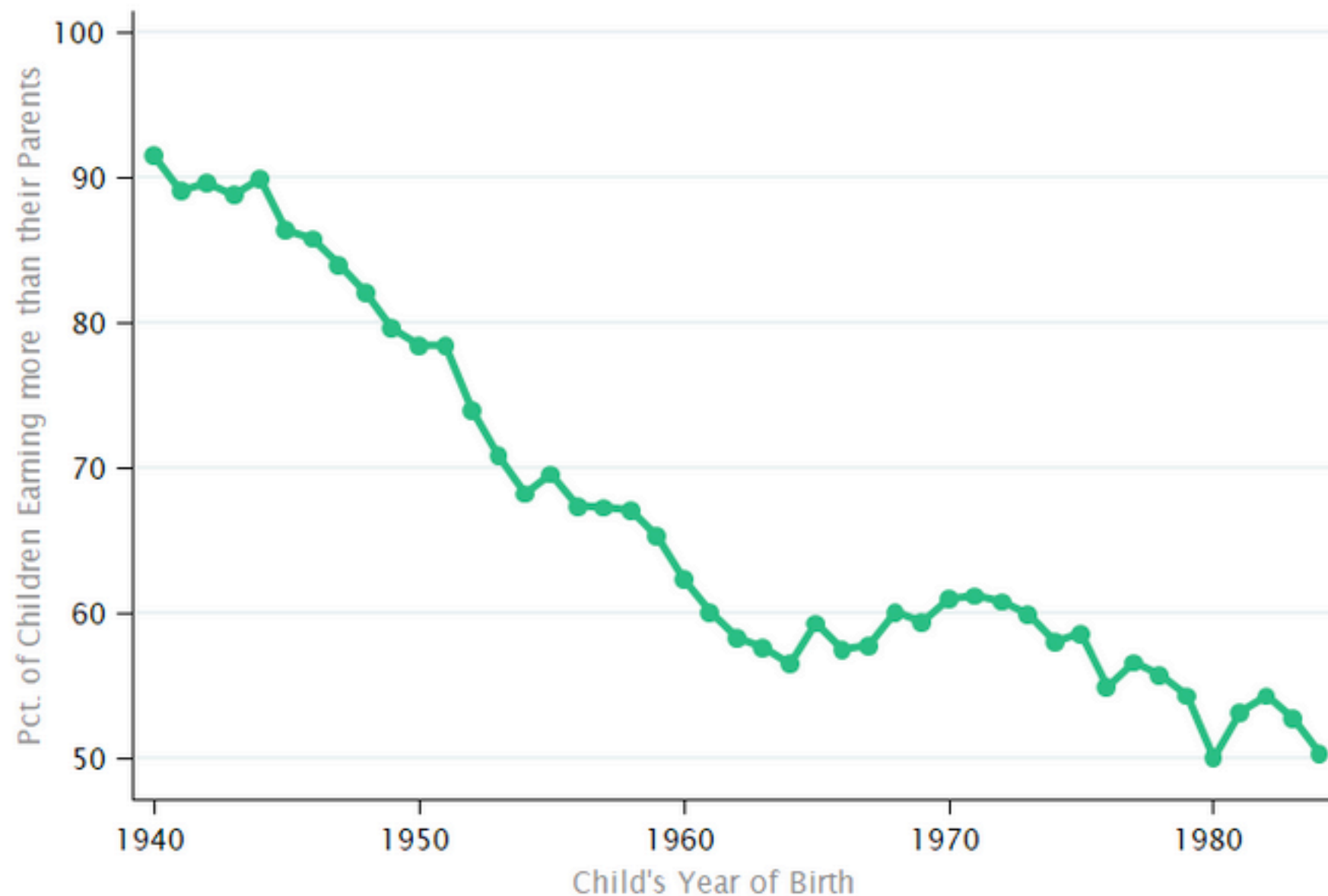
Source: US Census Bureau, Current Population Survey



California Budget  
& Policy Center  
*Independent Analysis. Shared Prosperity.*

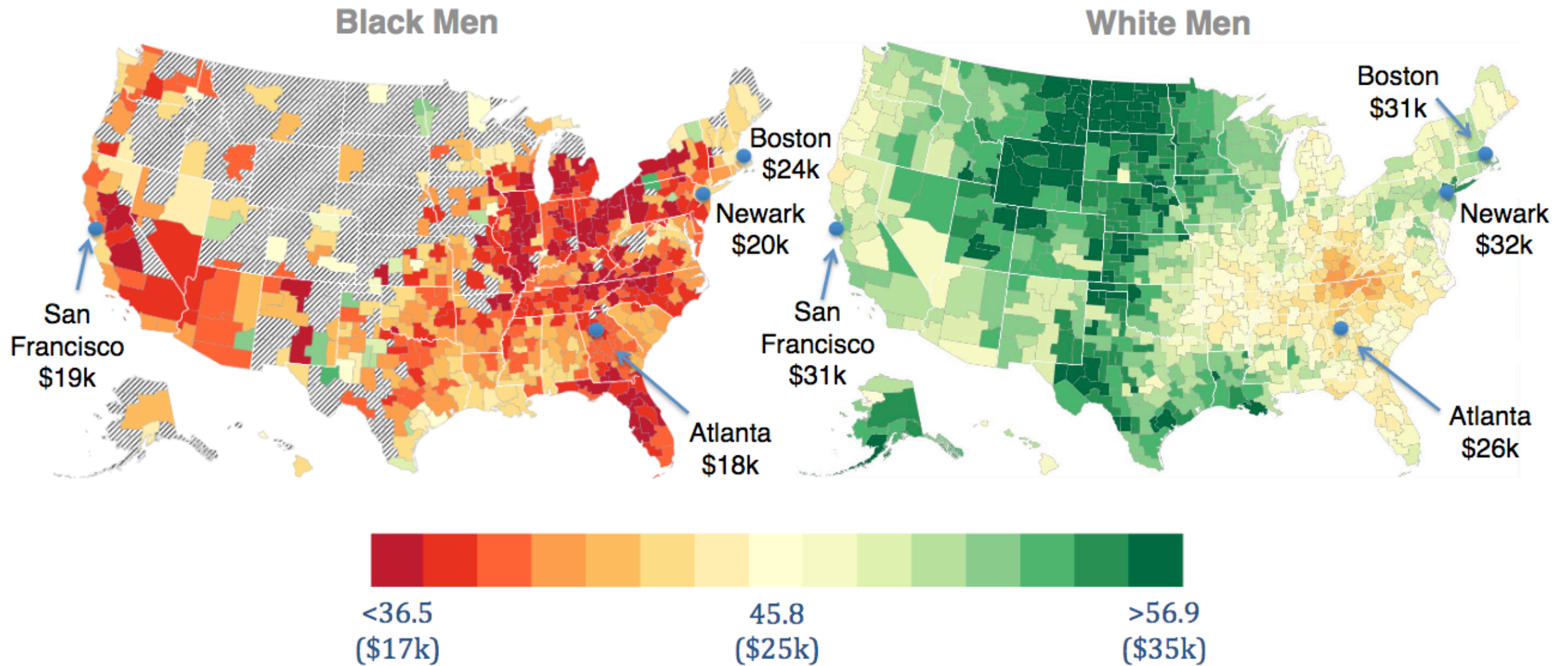
# Only **half** of children will out-earn their parents.

Percent of Children Earning More than Their Parents, by Year of Birth



## Two Americas: The Geography of Upward Mobility by Race

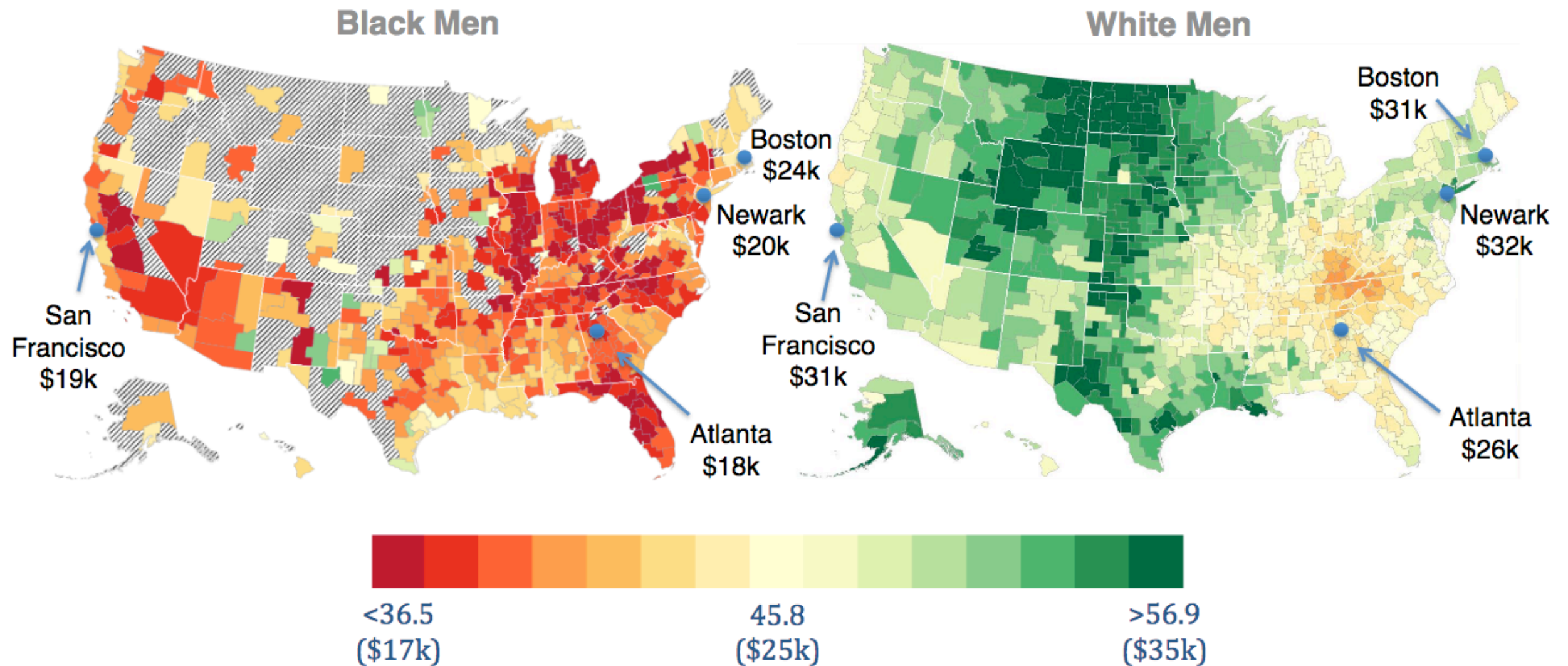
Average Individual Income for Boys with Parents Earning \$25,000 (25<sup>th</sup> percentile)





## Two Americas: The Geography of Upward Mobility by Race

Average Individual Income for Boys with Parents Earning \$25,000 (25<sup>th</sup> percentile)



In **99%** of neighborhoods in the US, *black boys* **earn less** in adulthood than *white boys* who grow up in families with comparable income.

**Black and white children fare *very differently* in America,**  
even if they grow up with two-parents, comparable  
incomes, education, and wealth, live on the same city block  
and attend the same school.





Black and white children fare **very differently** in America, even if they grow up with two-parents, comparable incomes, education, and wealth, live on the same city block and attend the same school.

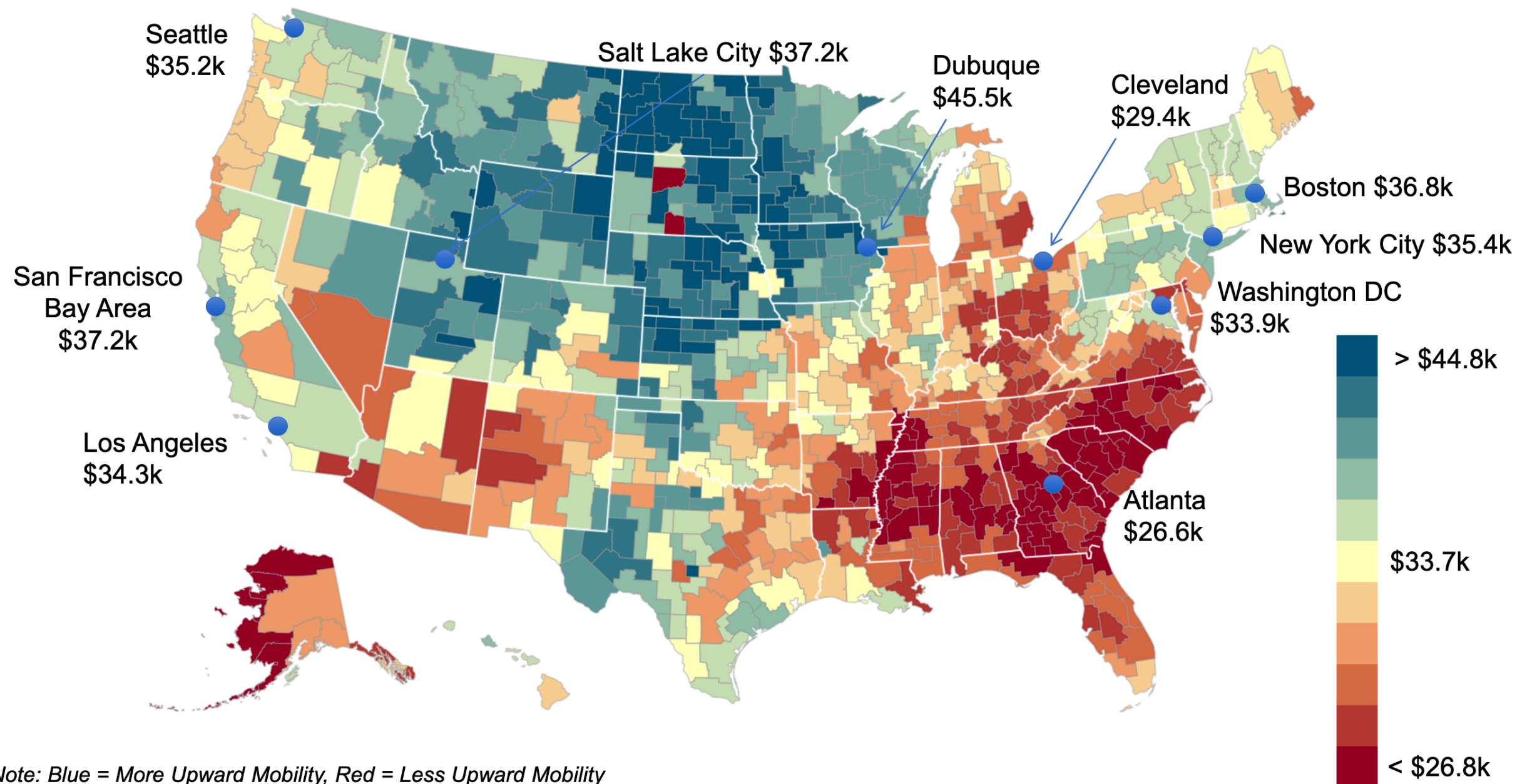


*These gaps are smallest in areas with **low racial bias** among whites and high father presence in black neighborhoods.*

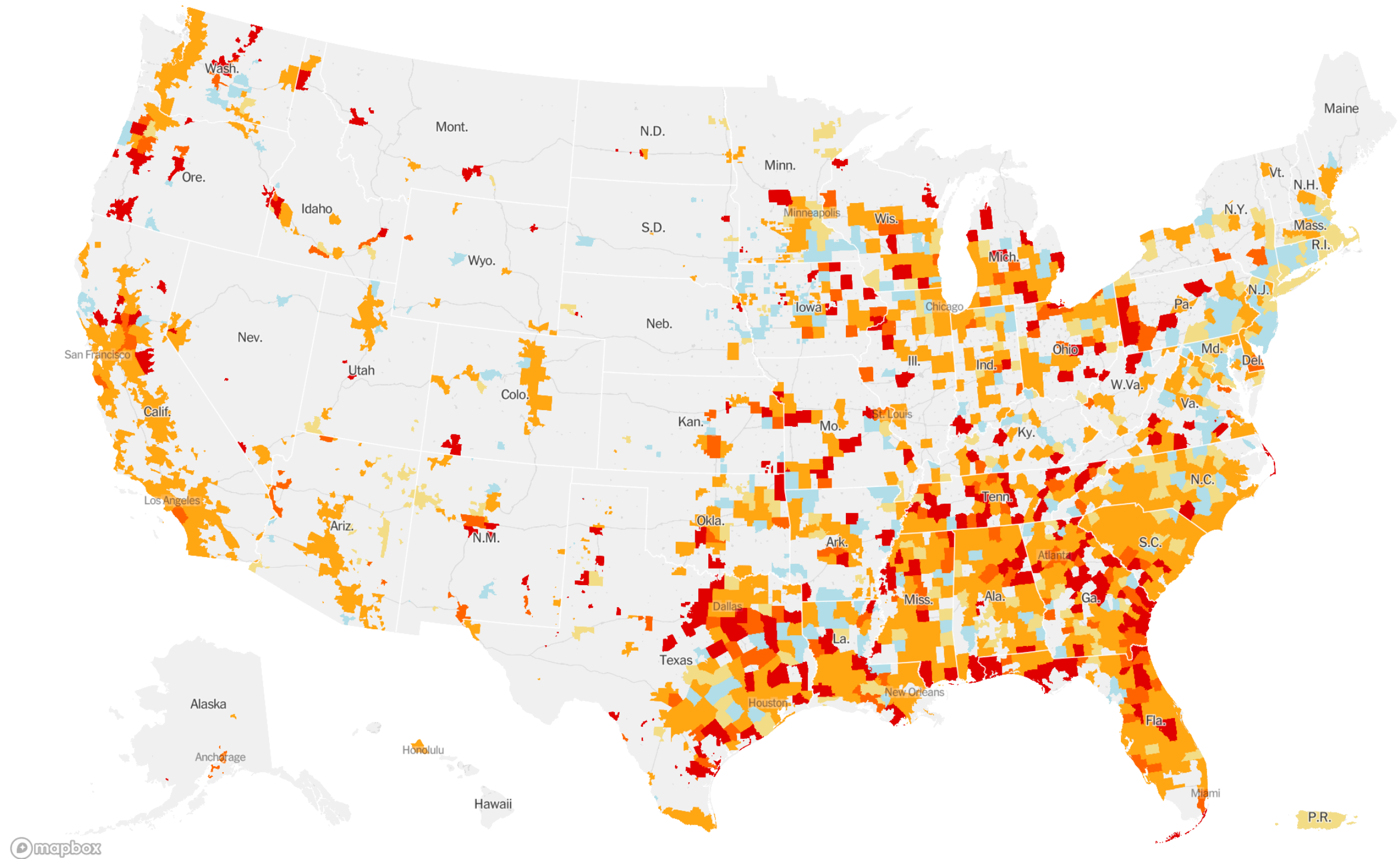
# Pre-Existing Inequality

## The Geography of Upward Mobility in the United States

Average Household Income for Children with Parents Earning \$27,000 (25<sup>th</sup> percentile)



# COVID-19 Hot Spots

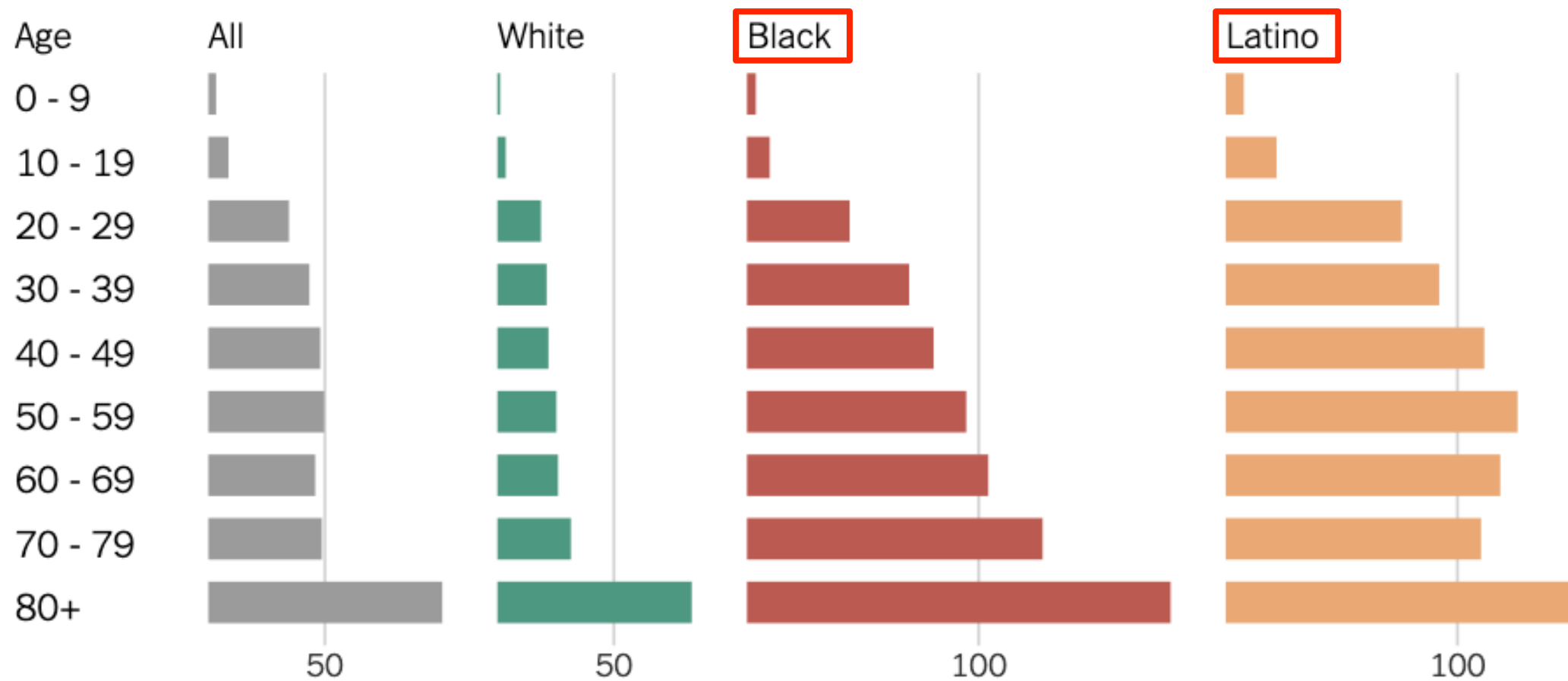


Sources: State and local health agencies and hospitals.

[About this data](#)

NYTimes. [Coronavirus in the US. Latest Map and Case Count.](#) As of July 6.

## Coronavirus cases per 10,000 people, by age and race



Source: Centers for Disease Control and Prevention | Note: Data is through May 28.

Majority Black counties have **6x** the rate of COVID19 *deaths* as majority white counties.

County majority	Counties	Cases per 100k	Deaths per 100k
Asian	6	19.5	0.4
Black	131	137.5	6.3
Hispanic	124	27.2	0.6
White	2,879	39.8	1.1

Note: Data per 100k based on averages.

Source: Johns Hopkins University and American Community Survey.

Thiebault R, Tran AB, Williams V. [Washington Post](#). As of April 7.





Overall, **Black Americans** have, on average, a COVID19 related *mortality rate* that is **2.3 times** the rate for White and Asian populations and **2.2 times** the rate of Latinx populations.

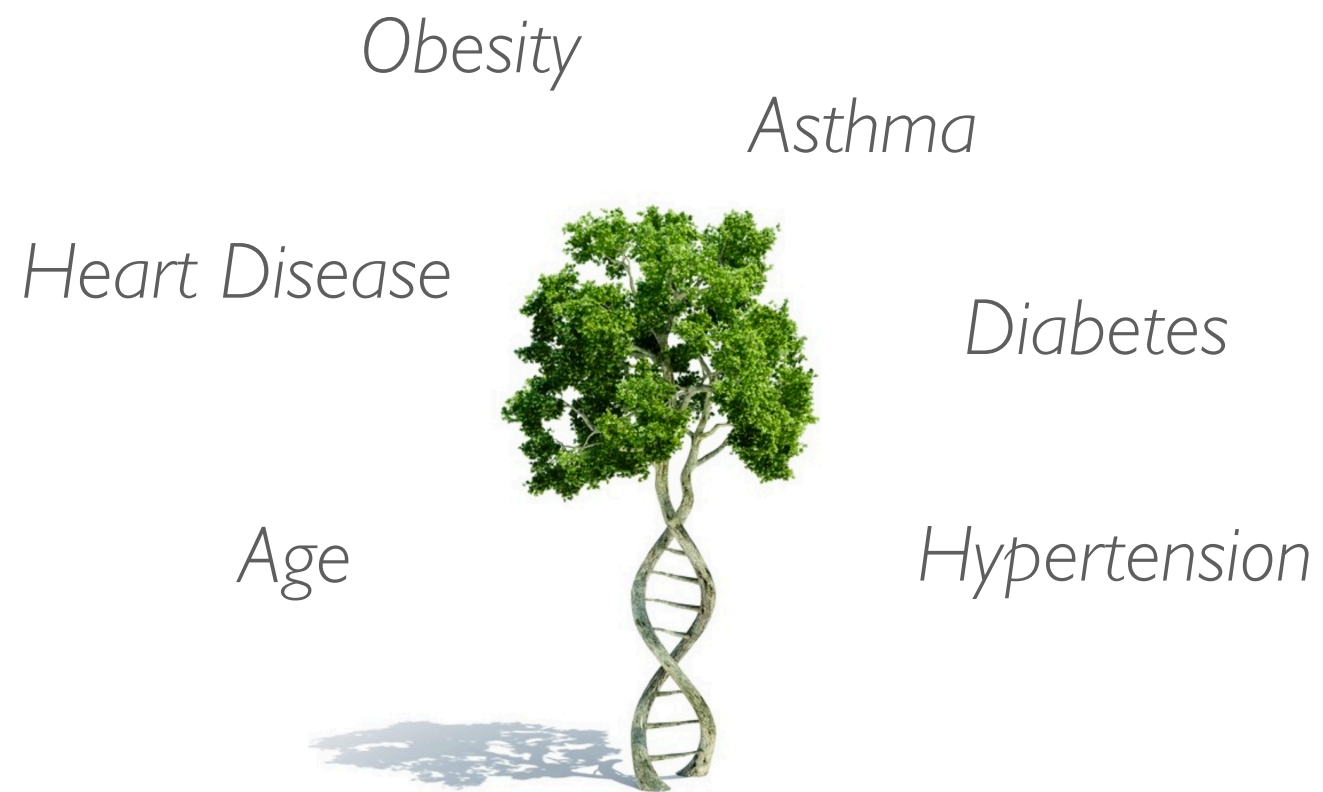
# Health Disparities

Population-level differences in health.

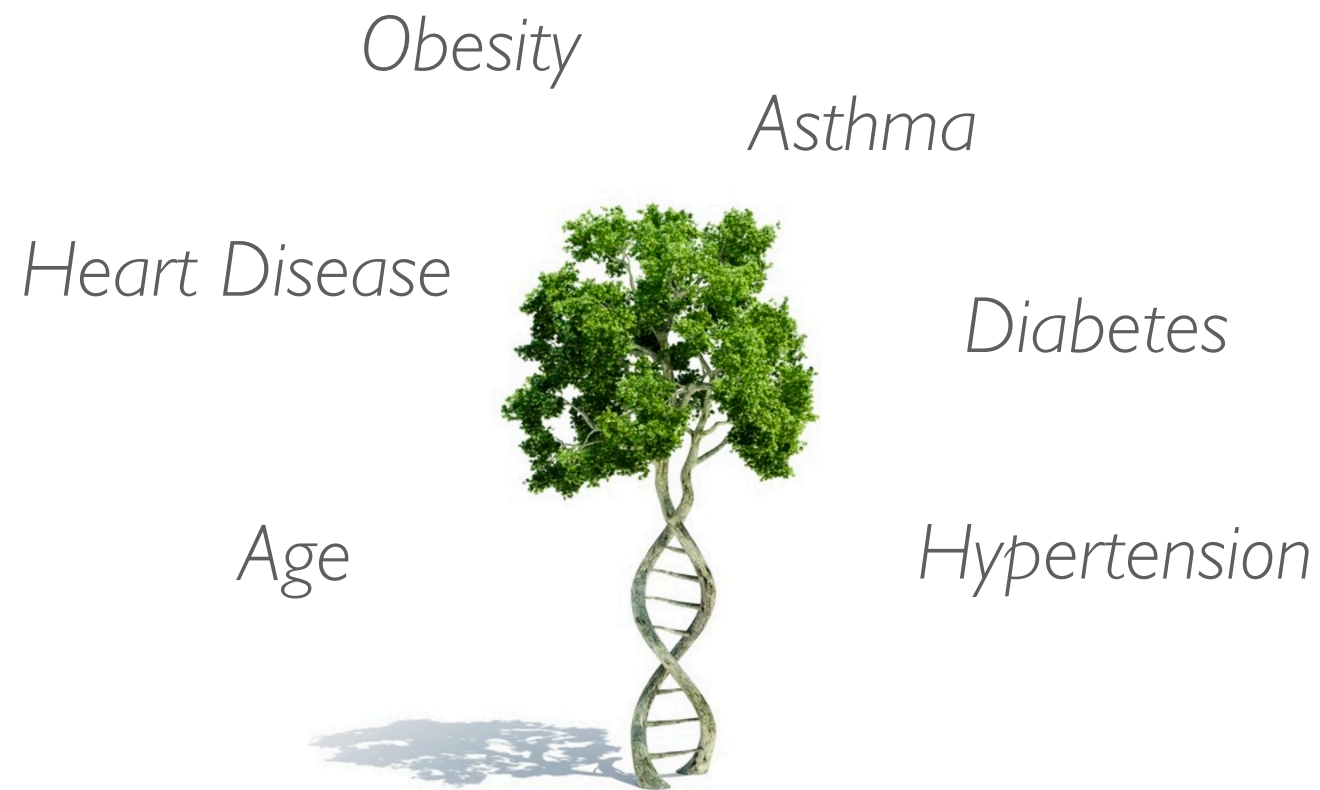
# Health Inequities

Population-level differences in health that are avoidable, unnecessary, unfair, and *unjust*.

Health Inequities arise when certain populations are **made vulnerable** to illness or disease, often through the *inequitable* distribution of **protections** and **supports**.



# Segregation





Segregation

Discrimination

*Obesity*

*Asthma*

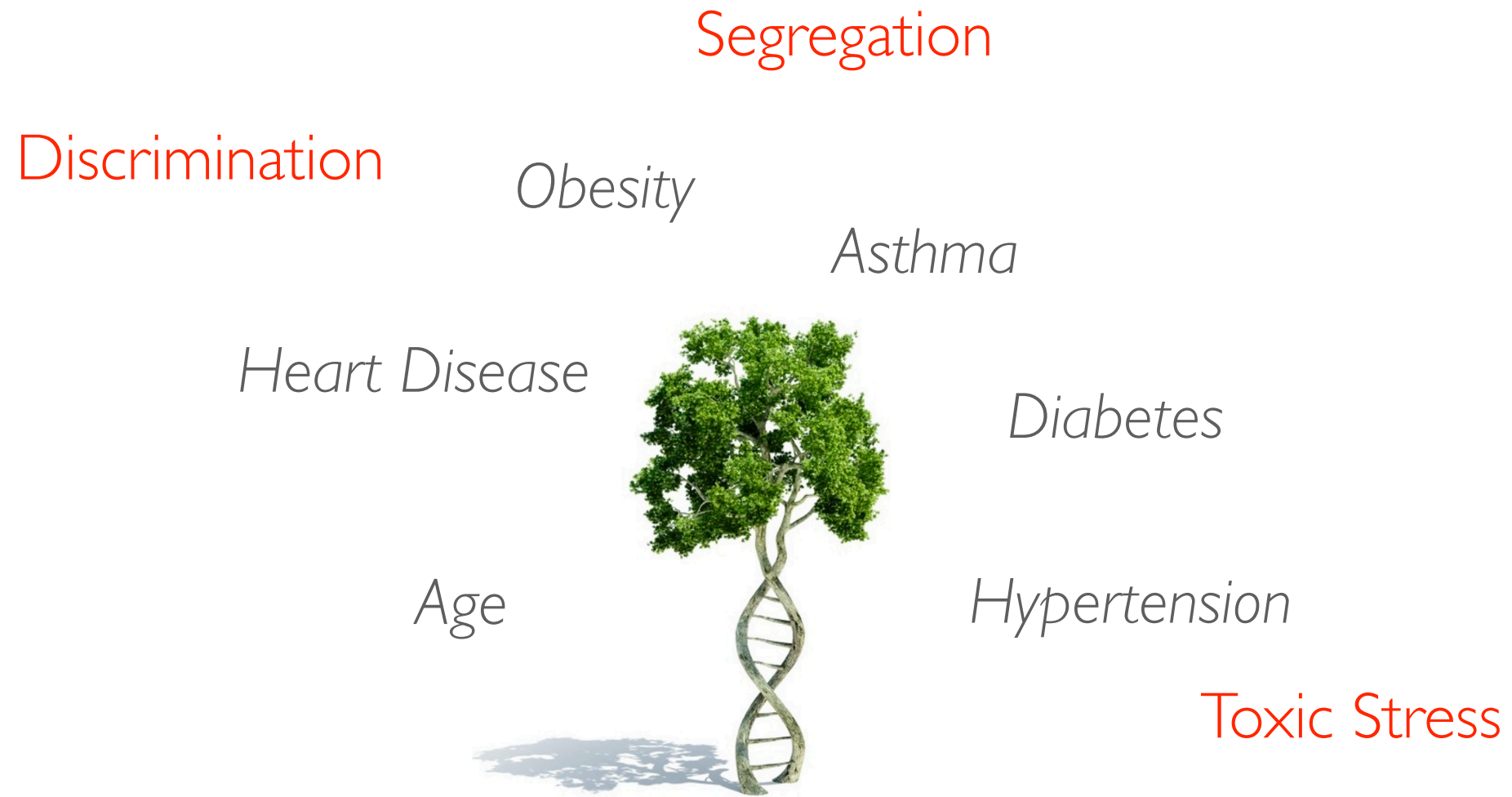
*Heart Disease*

*Diabetes*

*Age*

*Hypertension*





Segregation

Discrimination

*Obesity*

*Asthma*

*Heart Disease*

*Diabetes*

Racial Wealth Gap

*Age*

*Hypertension*

Toxic Stress



Segregation

Discrimination

*Obesity*

*Asthma*

*Heart Disease*

*Diabetes*

Allostatic Load

Racial Wealth Gap

*Age*

*Hypertension*

Toxic Stress



Segregation

Discrimination

*Obesity*

*Asthma*

*Heart Disease*

*Diabetes*

Allostatic Load

Racial Wealth Gap

*Age*

*Hypertension*

Weathering

Toxic Stress





Segregation

Discrimination

*Obesity*

Environmental Racism

*Asthma*

*Heart Disease*

Allostatic Load

*Diabetes*

Racial Wealth Gap

*Age*

*Hypertension*

Weathering

Toxic Stress



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Discrimination

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Toxic Stress



**Structural Racism** refers to *differential access* to goods, services, opportunities, **by race**.

Segregation

Discrimination

Obesity

Environmental Racism

Asthma

Heart Disease

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Toxic Stress



"Inherited Disadvantage"

**Structural Racism** refers to *differential access* to goods, services, opportunities, **by race**.

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"Inherited Disadvantage"

The physical and structural **environment** in which humans grow, learn, work and play shapes *intergenerational population health*.

Hand-washing is one of the most *important* ways to limit exposure to and spread of infectious disease.





**Race** is the *strongest predictor* of **water** and  
sanitation **access**.



Race is the *strongest predictor* of water and sanitation access.

African American and Latinx populations are about *twice as likely* to lack access to clean water in their homes.

**Race** is the *strongest predictor* of **water** and sanitation **access**.

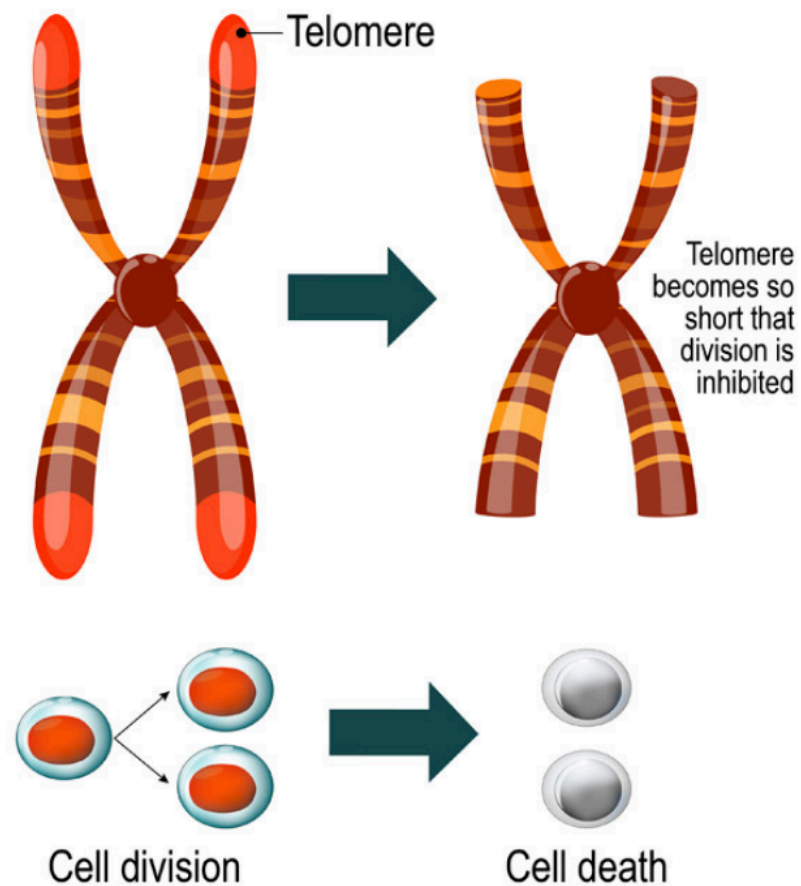
**African American** and **Latinx** populations are about *twice as likely* to lack access to clean water in their homes.

**Native Americans** are **19 times** more likely to lack access to clean water in their homes.

Race is the *strongest predictor* of water and sanitation access.

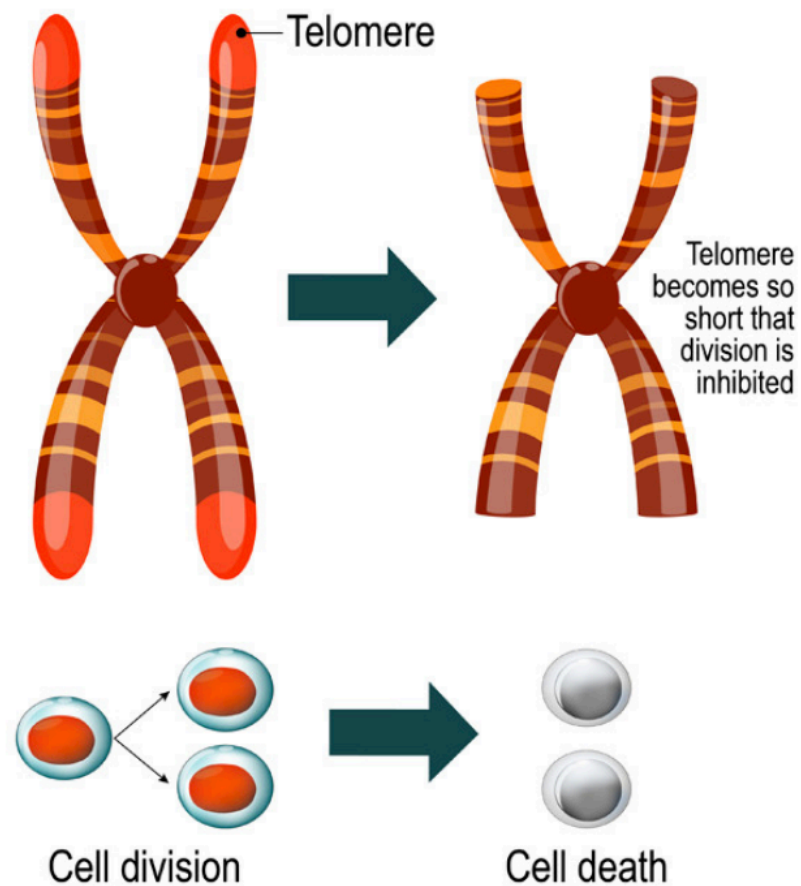
Structural Racism, in this case, functions through residential segregation and public divestment in Indigenous and Black communities, to exclude populations from access to clean water and a critical public health intervention as simple as *hand-washing* which shapes the racial distribution of COVID-19 in the US.

# Age + Risk



Black Americans aged  
35-44 have a  
COVID-19 mortality  
rate **9 times** higher  
than that of their age-  
matched white peers.

# Age + Risk



Black Americans aged  
35-44 have a  
COVID-19 mortality  
rate **9 times** higher  
than that of their age-  
matched white peers.

**Chronic Discrimination** *silently* **ages** and  
*prematurely* **kill** cells.

# Inequitable Risk\* of COVID

Infection + Complications

The preconditions that render certain racial and ethnic populations *vulnerable* to COVID19 are **not** simply summarized as "poverty" or "underlying illness".



# Inequitable Risk\* of COVID

Infection + Complications

The preconditions that render certain racial and ethnic populations *vulnerable* to COVID19 are **not** simply summarized as "poverty" or "underlying illness".

They are **legacies** and *current* **practices** of racial exclusion, discrimination, disinvestment and violence that concentrate disadvantage, create adversity, shape population-level opportunities for health and provide conditions for disease.



[Wikipedia Commons](#). Street car terminal Oklahoma City, Oklahoma. 1944.



Don Hogan Charles. The New York Times.





Time Magazine. The Roots of Baltimore's Riots. Photo by Devin Allen. 2015.

Segregation

Discrimination

Obesity

Environmental Racism

Asthma

Heart Disease

Allostatic Load

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The physical and structural **environment** in which humans grow, learn, work and play shapes *intergenerational population health*.

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**Police Violence**

The physical and structural **environment** in which humans grow, learn, work and play shapes *intergenerational population health*.

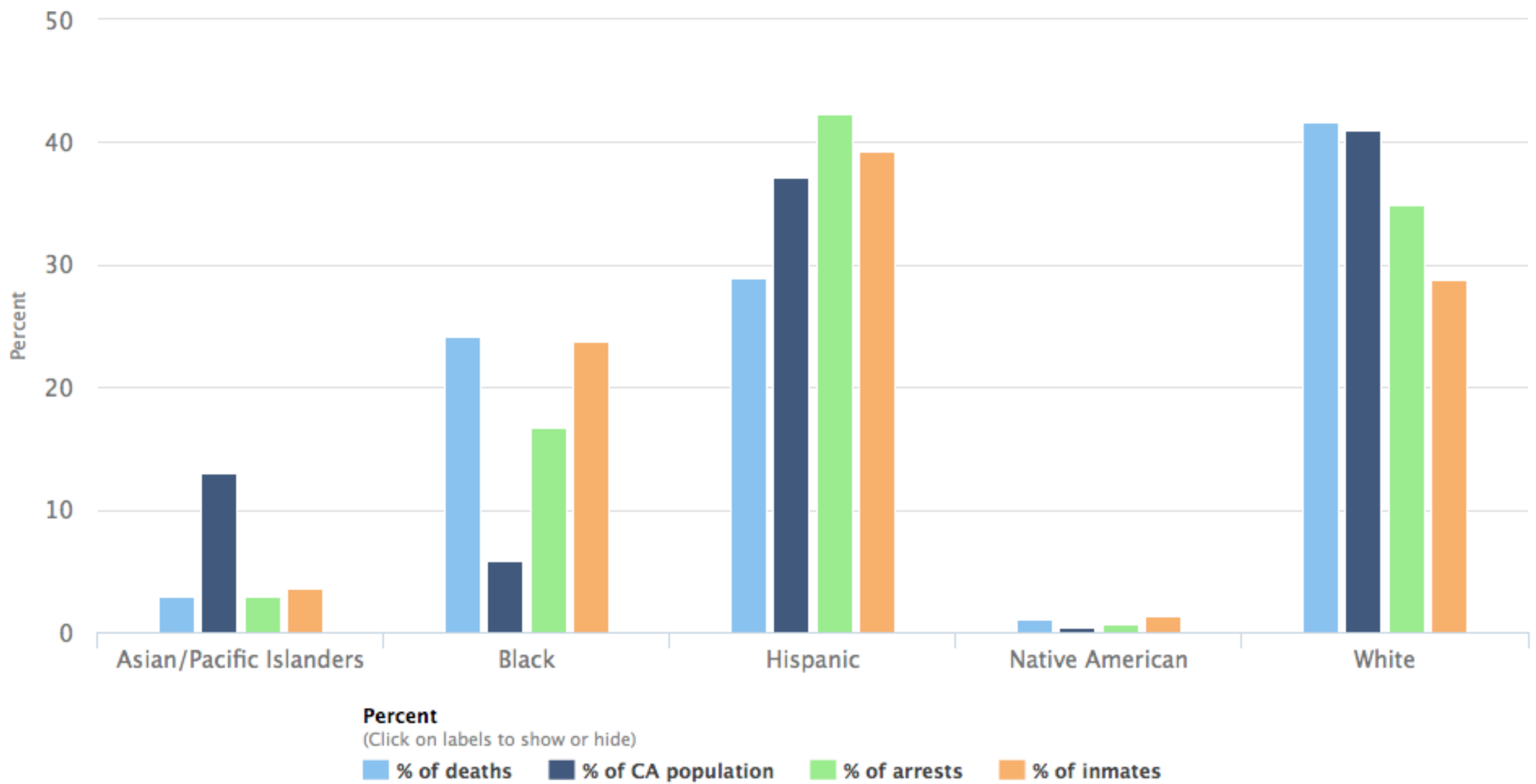


**1 in 1000**

Black men + boys will be killed by police.

Edwards et al. Risk of being killed by police use of force in the United States by age, race-ethnicity, and sex. Proceedings of the National Academy of Sciences. August 2019.

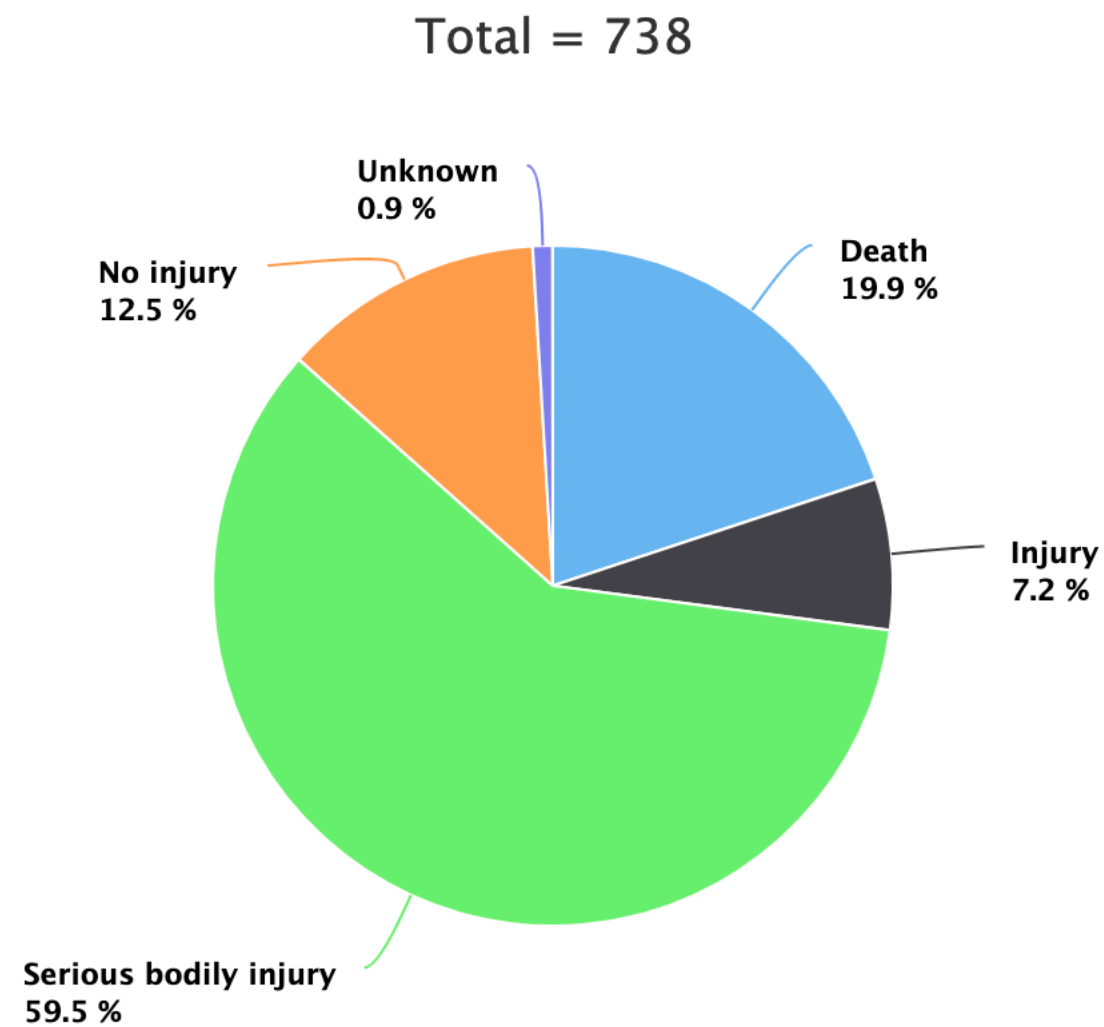




California Open Justice Portal. Deaths in Custody, 2005-2015.

# On Use of Force

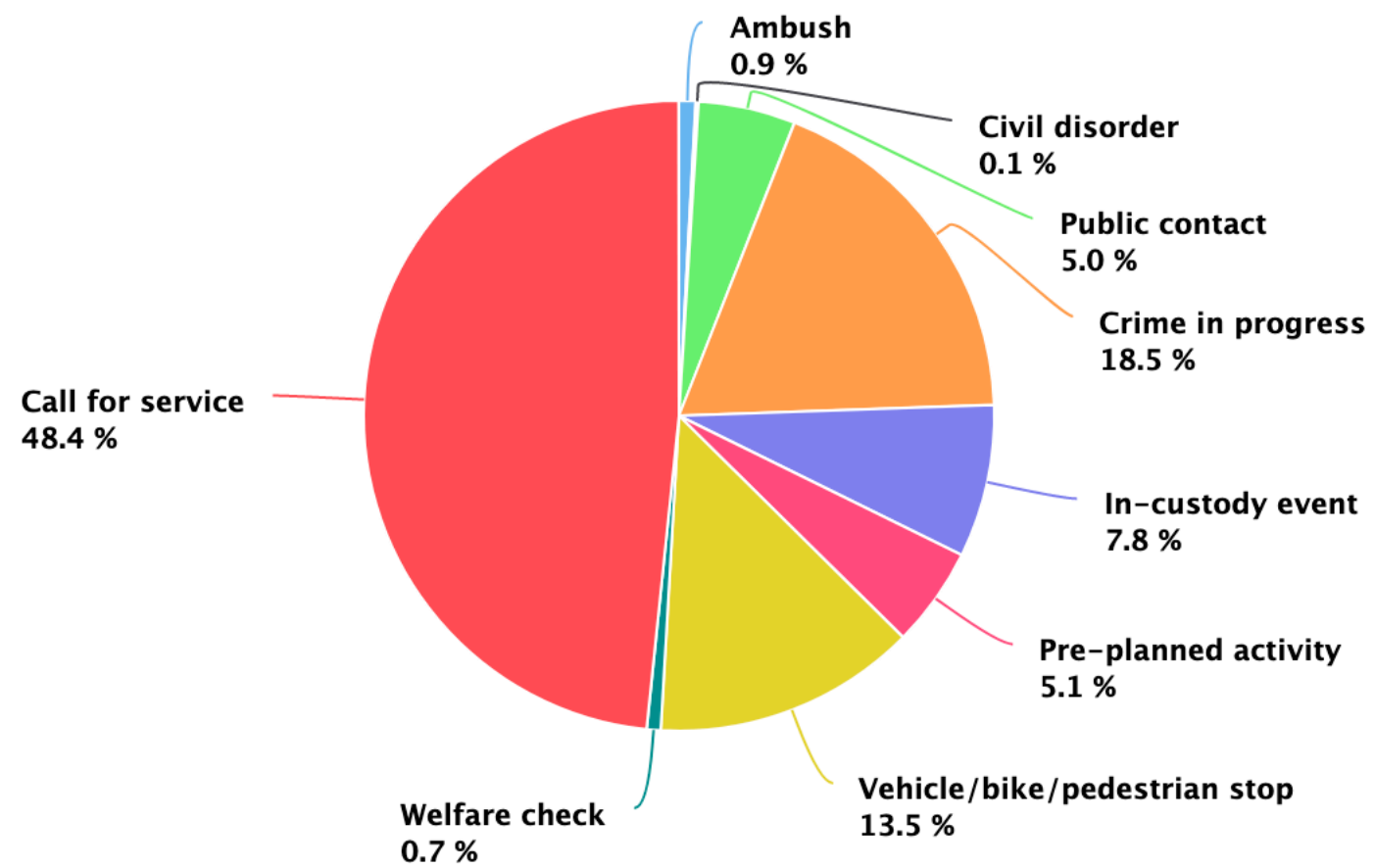
## CIVILIAN INJURY BY TYPE, 2019



# On Use of Force

## REASON FOR INITIAL CONTACT, 2019

Total = 703



# Exposure to Police Violence

## Victim

- Arrest
- Incarceration
- Injury
- Disability
- Mental Health
- Impairment
- Death

Boyton-Jarrett R, Ryan LM, Berkman LF, Wright RJ. Cumulative violence exposure and self-rated health: Longitudinal study of adolescents in the United States. *Pediatrics*. 2008; 122(5): 961-970.

# Exposure to Police Violence

## Victim

+

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- Incarceration
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Boyton-Jarrett R, Ryan LM, Berkman LF, Wright RJ. Cumulative violence exposure and self-rated health: Longitudinal study of adolescents in the United States. *Pediatrics*. 2008; 122(5): 961-970.

# Exposure to Police Violence

**Victim**

+

**Witness**

- Arrest
- Incarceration
- Injury
- Disability
- Mental Health
- Impairment
- Death

Boyton-Jarrett R, Ryan LM, Berkman LF, Wright RJ. Cumulative violence exposure and self-rated health: Longitudinal study of adolescents in the United States. *Pediatrics*. 2008; 122(5): 961-970.

# Exposure to Police Violence

## Victim

+

## Witness

- Arrest
- Incarceration
- Injury
- Disability
- Mental Health
- Impairment
- Death

- PTSD
- Substance Abuse
- Depression
- Poor Reported Health
- Attentional Impairment
- School Failure
- School Suspension/Expulsion

Boyton-Jarrett R, Ryan LM, Berkman LF, Wright RJ. Cumulative violence exposure and self-rated health: Longitudinal study of adolescents in the United States. *Pediatrics*. 2008; 122(5): 961-970.



# Exposure to Police Violence

Police killing unarmed Black Americans increase self-reported poor mental health days and frequent mental distress in Black Americans living in the *same state*.

Bor J, Venkataramani AS, Williams DR, Tsai AC. Spillover effects of police killings on the mental health of black Americans in the general U.S. population. Lancet 2018.

# Exposure to ICE Violence

Experiencing or witnessing an immigration-related arrest of a family member is significantly associated with higher rates of depressive symptoms.

# Exposure to ICE Violence

Experiencing or witnessing an immigration-related arrest of a family member is significantly associated with higher rates of depressive symptoms.

Depressive symptoms are magnified among youth who report that both of their parents have undocumented legal status.

Living in **lethally-surveilled** areas is linked to a greater risk of **high blood pressure** and **obesity** for *all* neighborhood residents and to a greater risk of obesity for **women**.

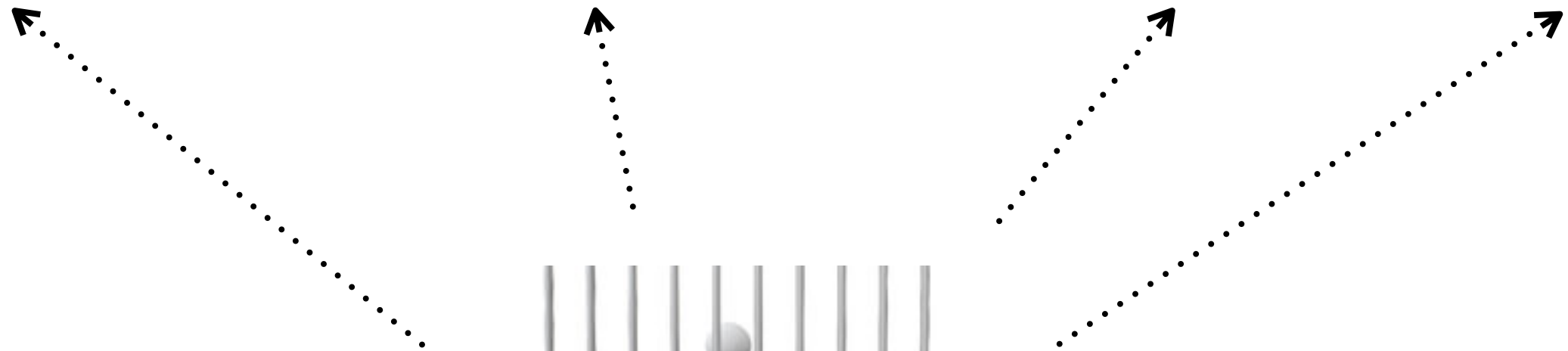
*Lethal police brutality* is an important **neighborhood risk factor** for **illness** and, especially, for women's health



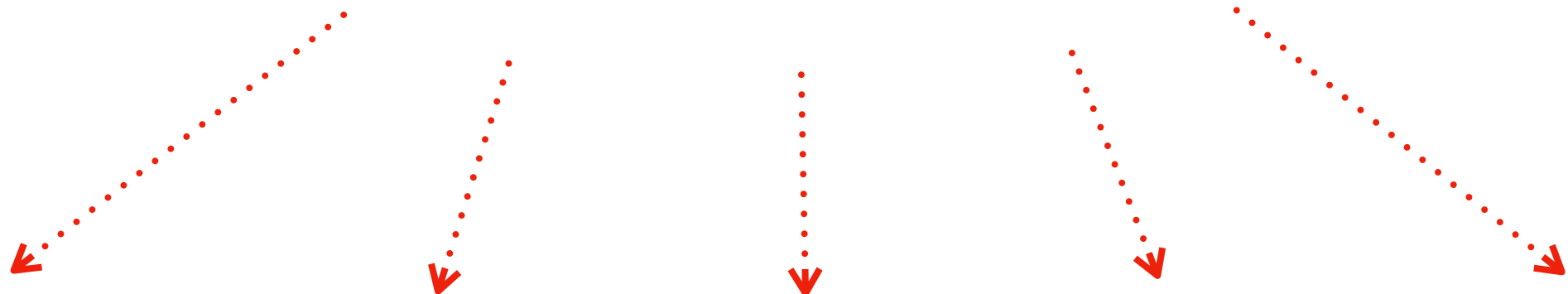
For youth who experience it as  
**caregiver absence, custody  
transitions**, or the  
**criminalization of peers**,  
police exposure can be linked  
to events associated with  
**loss** or **stress**.

This transforms routine police encounters into  
events that in *quantity* or *severity*  
affect their **health**.

Employment    Public Housing    Student Loans    Voting

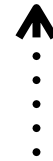


## Parental Imprisonment

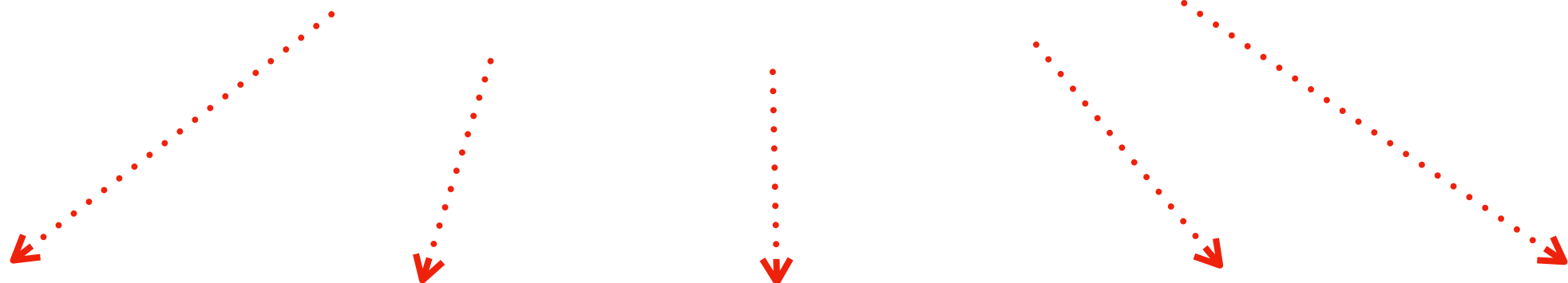


Depression    PTSD    Asthma    Anxiety    Migraines

Behavioral changes, changes in sleep and eating habits,  
impaired school performance



## Child Detention



Depression PTSD Suicidal Ideation Anxiety Delays





The **violence of police** disappears *caregivers*.

CLASP. Our Children's Fear: Immigration Policies Effects on Young Children. March 2018.



The **violence of policing** **separates** children from the social networks on which they rely and in which they **thrive**.

Racism kills people.



Equality *saves* lives.

Protest is a *powerful* and *vital*  
public health intervention.