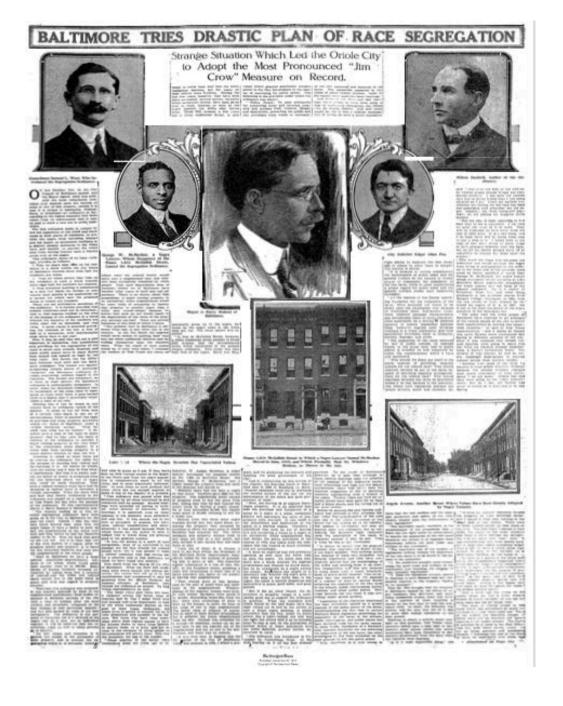
NASEM Roundtable on the Promotion of Health Equity

COVID-19 and the Spatial Legacies of Colonization and American Apartheid

How We Frame & Collect Data Matters





Public Health Data and Baltimore Apartheid

New-York Tribune (New York, New York) • 20 Feb 1917. Tue

or money while under duress.

NEGRO SEGREGATION PLAN MAY BE TRIED IN BALTIMORE

High Death Rate, Due to Bad Housing, Causes Conference on Remedy

Baltimore, Feb. 19 .- To meet a situation of "alarming gravity," Mayor Preston announced to-night that he had called a meeting of 150 physicians, social workers and representative citizens for next Friday, to devise ways of improving the health of the negro element in this city. The negro death rate is 28 to 32 a thousand, while the white death rate is 16 to 18.

Mayor Preston declared that the city's health records show that for la every white person who dies from is tuberculosis there is a percentage of 31/2 of negro deaths from the disease. He said that the poor housing conditions of the negroes were chiefly to v blame.

It is understood that the Mayor will announce a plan of partial segregation for negroes. A section of the county | p may be laid out along modern lines as s a regro colony. There are nearly in \$9,000 negroes in Baltimore.

Housing Committee.

SUBURBAN COLONY PROPOSED

Parking Of Alleys And Sanitary Campaign Are Among Suggestions At Enthusiastic Meeting.

STEPS TOWARD BETTER HOUSING.

Mayor Preston was authorized to appoint a committee to work out a plan for more sanitary housing and living conditions for the 90,000 negroes in Balti-

The committee will consider the closing and parking of alleys in negro districts and the establishment of settlements in the suburbs or in sections where colonization will not be objectionable.

Dr. John F. Goucher announced that Morgan College planned the purchase of a tract of 50 or 60 acres for a negro settlement, with a new college building as the centre.

Dr. William T. Howard, Jr., Acting Commissioner of Health, presented statistics showing that the death-rate among negroes was nearly 100 per cent. greater than among white people, due to conditions under which they live.

A committee to prepare a plan for better housing and living conditions for the 90,000 negroes in Baltimore will be appointed by Mayor Preston today or Monday as the result of a number of sug-gestions made at a largely attended and

TO AID 90,000 NEGROES share, I think, in clearing up the situation by paving the alloys, purifying the water and in completing house councer. tions with sanitary sewers. I hope this Mayor Is Authorized To Name coming summer to have all the private alleys in Baltimore paved. We are doing this now in a wholesale way, and the city forces are also making rapid progress in paving of public alleys. This will greatly improve physical conditions and permit the alleys themselves to be washed and kept in a sanitary condition.

Sanitary Campaign Planned. "But the condition of the premises

themselves is very largely individual and beyond the reach of the municipality or its representatives. The Health Department and the Police Department have some control over this, but their regulations are difficult to enforce. A campaign of sanitary education is being undertaken in the churches and the schools, and I am giving every encouragement and incentive to this that I

can contribute.

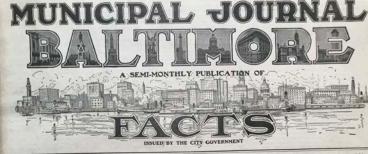
"There seems to be ample territory in the colored blocks and in the mixed blocks for the expansion to take care of the existing and future colored population, and we should work along practical lines and not attempt impractical Any change in the segregation would meet with very great opposition from our white population and bring about friction and hostility between the races, which would be very much to be deplored. The present segregation law should be thoroughly tried out. The mixed block seems to open a wide opportunity for the expansion of the colored settlement.

"The problem, after all, is akin to the tenement problem, and should be treated with a view to the welfare of the whole community. It is not a ques-tion only for the colored race, but a question for our own people to consider thoroughly when it appears that the white people are very largely the owners of the property occupied by the colored people, and the care, cleanliness and sanitation of these premises is largely a problem for the property-owning class to solve."

Physician Gives Statistics.

Dr. Howard stated that the negro population of Baltimore represented numerically 15.2 per cent. of the whole, gestions made at a largely attended and carnest conference at the City Hall yesterday afternoon.

The necessity for action was urged by the Mayor. Alfred S. Niles, Dr. William T. Howard, Jr., Acting Commissioner of Health: Francis M. Jeneks, the Rev. George A. Griffiths, of Mount Calvary parish: Dr. Heury Barton Jacobs, Dr. John F. Goucher and William W. Emmart. Bishop John Gardner portional population, the rate was 9414 liam W. Emmart. Bishop John Gardner portional population, the rate was 941/2



REGULAR CIRCULATION 12,000

WHAT CAN BE DONE TO IMPROVE THE LIVING CONDITIONS OF BALTIMORE'S NEGRO POPULATION?

MAYOR PRESTON APPOINTS COMMITTEE TO STUDY THE SITUATION THAT THE PROBLEM MAY BE SOLVED.

COVID-19 and Racial/Ethnic Disparities

Rate of COVID-19 deaths reported by race/ethnicity through April 23, 2020

For all U.S. states with available data and Washington, D.C. Mortality rate per 100,000 residents of each group.

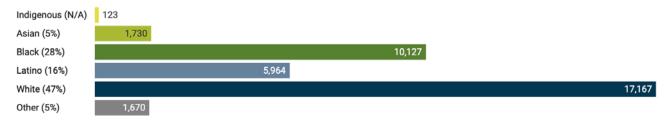


Includes data from Washington, D.C., and the 35 states of Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Jersey, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Virginia, Washington and Wisconsin. Rates could not be calculated for Indigenous, Native Hawaiian or other Pacific Islander, and other races due to inconsistent data reporting across states.

Source: APM Research Lab • Get the data • Created with Datawrapper

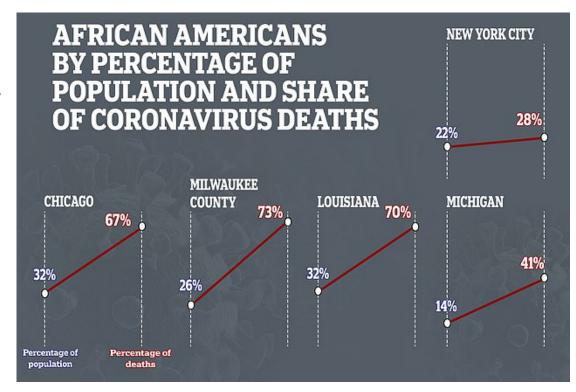
Total COVID-19 deaths reported by race/ethnicity through April 23, 2020

For all U.S. states with available data and Washington, D.C. Percentage represents share of all deaths with known race/ethnicity.



Includes data from Washington, D.C., and the 35 states of Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Jersey, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Virginia, Washington and Wisconsin. Rates could not be calculated for Indigenous, Native Hawaiian or other Pacific Islander, and other races due to inconsistent data reporting across states. Rates could not becalculated for Indigenous, Native Hawaiian or other Pacific Islander, and otherraces due to inconsistent data reporting across states. States employ varying collection methods regarding ethnicity data, which results in percentages summing to more than 100%. Indigenous people are tallied separately in some states, but exist in "other" in other states; therefore, 123 is a presumed undercount of all Indigenous lives lost. "Other" includes Indigenous, Native Hawaiian or other Pacific Islander, and any deaths classified as "other race" in the data.

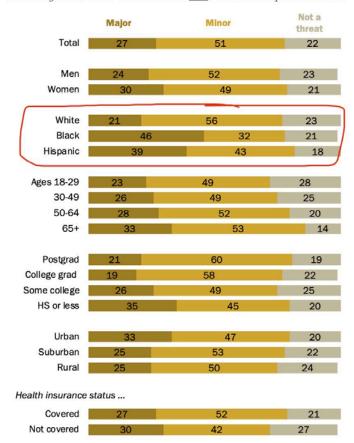
Source: APM Research Lab • Get the data • Created with Datawrapper



How Much Were People Concerned?

Personal health concerns over the coronavirus higher among black and Hispanic people than white people

% who say the coronavirus outbreak is a ____ threat to their personal health



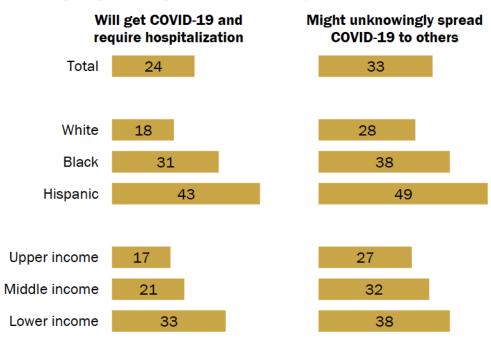
Note: No answer responses not shown.

Source: Survey of U.S. adults conducted March 10-16, 2020.

PEW RESEARCH CENTER

Racial and income differences in concerns over contracting COVID-19, spreading it to others

% who say they are **very** concerned that they...



Notes: Whites and blacks include only those who are not Hispanic; Hispanics are of any race. Family incomes are based on 2018 earnings and adjusted for differences in purchasing power by geographic region and for household size.

Source: Survey of U.S. adults conducted Apr. 7-12, 2020.

PEW RESEARCH CENTER

Missing Data

We don't have data for everyone.

- Latinx
- Asian/Pacific Islander
- Native Americans
- Individuals with disabilities
- LGBTQ



Stories Matter

COVID-19 Testing Delayed...

TRIBAL COUNCIL MEMBER DIAGNOSED WITH COVID-19

on March 25, 2020

EDITOR'S



NOTE: After several weeks of trying to get tested for COVID-19, Tribal Council Member Myra Pickering finally

...COVID-19 Testing Denied

Man says dad was turned away by 3 hospitals while sick with COVID-19, then died at home

Published 3 days ago | Coronavirus in Michigan | FOX 2 Detroit

DETROIT (FOX 2) - A father and grandfather are dead - and a widow is spending her anniversary in the hospital.

Her family is in mourning, wondering if some of their suffering could have been avoided.



Man says father was turned away by 3 hospitals sick with COVID-19 before he died at home

"I understand now why black people are the highest affected mortality rate with this because we're being pushed home to die and infect our family," Keith Gambrell said.

GARY FOWLER

Detroit health care worker dies after being denied coronavirus test 4 times, daughter says

Kaila Corrothers said that when she thinks of her mother, Deborah Gatewood, there is one thought that lingers: "This did not have to happen this way."



Deborah Gatewood with her daughter Kaila Corrothers. Courtesy Kaila Corrothers

DEBORAH GATEWOOD

Racial Bias in Testing?

RESEARCH ARTICLE

Dissecting racial bias in an algorithm used to manage the health of populations

Ziad Obermeyer^{1,2,*}, Brian Powers³, Christine Vogeli⁴, Sendhil Mullainathan^{5,*,†}

+ See all authors and affiliations

Science 25 Oct 2019: Vol. 366, Issue 6464, pp. 447-453 DOI: 10.1126/science.aax2342

Article Figures & Data Info & Metrics eLetters PDF

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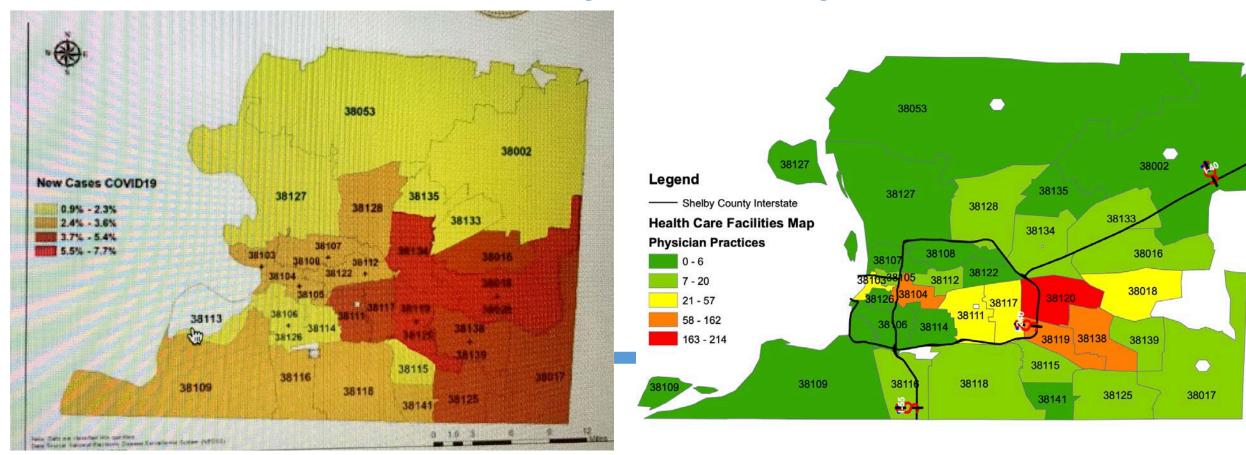
Racial bias in health algorithms

The U.S. health care system uses commercial algorithms to guide health decisions. Obermeyer et al. find evidence of racial bias in one widely used algorithm, such that Black patients assigned the same level of risk by the algorithm are sicker than White patients (see the Perspective by Benjamin). The authors estimated that this racial bias reduces the number of Black patients identified for extra care by more than half. Bias occurs because the algorithm uses health costs as a proxy for health needs. Less money is spent on Black patients who have the same level of need, and the algorithm thus falsely concludes that Black patients are healthier than equally sick White patients. Reformulating the algorithm so that it no longer uses costs as a proxy for needs eliminates the racial bias in predicting who needs extra care.

Science, this issue p. 447; see also p. 421

Where Testing Happens Matters

COVID-19 in Shelby County, TN



COVID-19 Testing Sites in Shelby County, TN

City of MEMPHIS MAYOR Jim Strickland

Sites for COVID-19 Testing in the Memphis Area

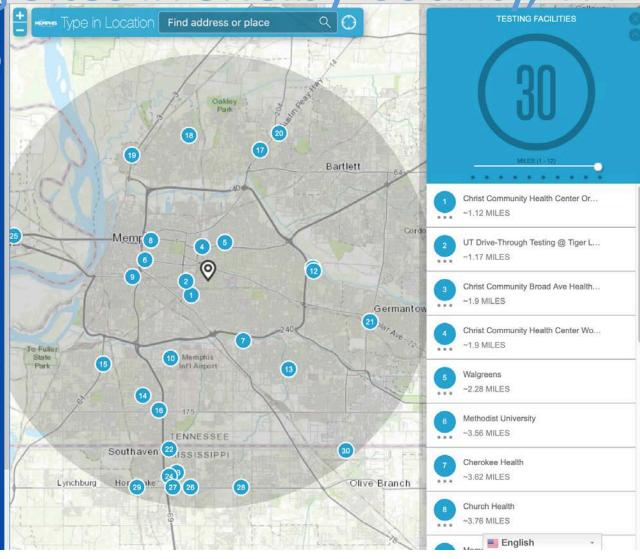
From Mayor Strickland:

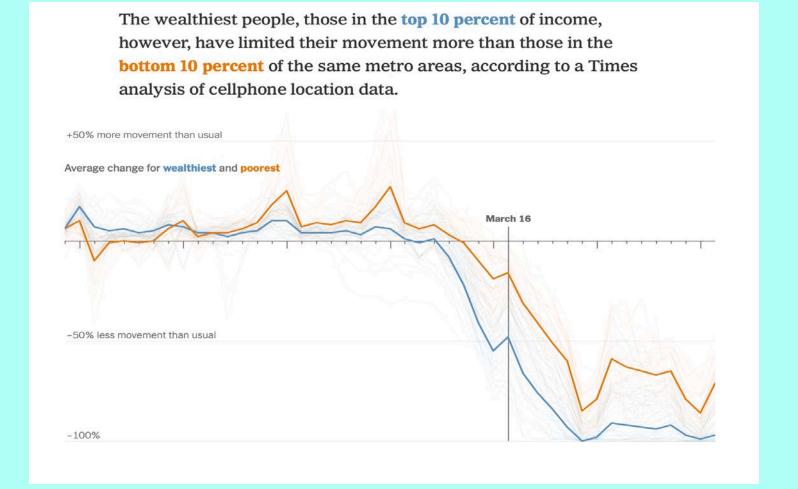
Governor Bill Lee is scheduled to attend Christ Community Health Services Free COVID-19 drive-through testing event this Saturday, April 25, from 12:00–3:00 pm at Christ Community Health Services Frayser Health Center at 696 Frayser Blvd.

The testing event is in association with Governor Lee's efforts to ensure that COVID-19 test is available to all Tennessee residents. All tests are administered by Nurses and National Guard medics and is available to anyone who desires to be tested for COVID 19.

Unlike previous drive-through testing, <u>you</u> do not need to be experiencing any COVID-19 symptoms and do not need to preregister or schedule an appointment. Testing is open to everyone, and participants do not have to be Shelby County residents. Test results should be available within 72 hours, and everyone tested should receive a call regarding their results.

Updates:





Location Data Says It All: Staying at Home During Coronavirus Is a Luxury (New York Times, April 3, 2020)

Change in movement in metro areas with high income disparity Bridgeport-Stamford, Conn. Washington San Francisco San Jose, Calif. +25% more movement -50% -50% -50% March 30 -100% -100% -25% less movement New York Boston Baltimore Bottom 10 percent resumed movement -50% -75% -50% -50% Top 10 percent → halted movement -100% -100% -100% -100%

Location Data Says It All: Staying at Home During Coronavirus Is a Luxury (New York Times, April 3, 2020)

Space is the Place: COVID-19 Data

Three Waves of COVID-19

- Wave 1: Seattle, California, nursing homes, cruise ships
- Wave 2: Large urban areas (especially New York City & adjacent areas, New Orleans)
- Wave 3: Rural areas, Tribal Lands, Deep South

Hypersegregation in America



Table 2 Hypersegregated metropolitan areas in 2010

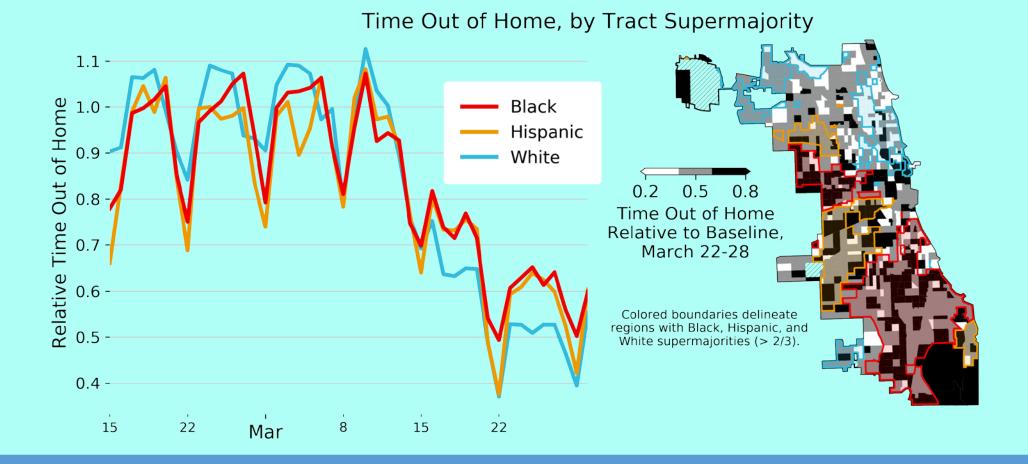
	Unevenness	Isolation	Clustering	Concentration	Centralization	Average
High Score on All l	Five Dimensions	S				
Baltimore	64.3	62.4	62.6	79.1	79.1	69.5
Birmingham	65.2	62.6	78.3	68.3	79.3	70.7
Chicago	75.2	64.8	86.3	79.1	79.6	77.0
Cleveland	72.6	64.7	80.6	85.4	81.9	77.0
Detroit	74.0	70.0	82.6	86.2	74.6	77.5
Flint	67.3	61.7	84.2	80.1	84.1	75.5
Milwaukee	79.6	65.5	100.0	87.1	91.2	84.7
St. Louis	70.6	62.0	75.9	87.3	91.2	77.4
Average	71.1	64.2	81.3	81.6	82.6	76.2
High Score on Four	Dimensions					
Boston	61.5	31.1	64.8	75.2	79.2	62.4
Chattanooga	63.0	48.6	66.8	78.8	62.6	64.0
Dayton	63.3	55.1	63.4	70.4	76.7	65.8
Gadsden	66.4	47.0	67.2	81.7	81.4	68.7
Hartford	62.3	35.4	80.5	71.1	70.7	64.0
Kansas City	58.6	43.3	52.1	86.5	88.1	65.7
Mobile	59.0	62.2	42.0	68.4	72.6	60.8
Monroe	63.4	66.7	62.6	51.7	71.6	63.2
New York	76.9	51.3	78.6	80.6	83.6	74.2
Philadelphia	67.0	55.8	85.0	69.7	70.0	69.5
Rochester	63.0	40.3	98.9	75.7	78.6	71.3
Syracuse	64.6	37.5	69.0	83.7	87.5	68.5
Winston-Salem	56.1	43.4	55.4	74.8	81.2	62.2
Average	63.5	47.5	68.2	74.5	77.2	66.2

COVID-19 in Hypersegregated Cities

Cities	Segregation Intensity	Hypersegregation Status	Cases per 100,000
New York City	Category 4	Currently hypersegregated	1,873.4
New Orleans	Category 3	Once hypersegregated	1,613.3
Albany, GA	Category 2	Once hypersegregated	1,609
Detroit	Category 5	Currently hypersegregated	874.7
Philadelphia	Category 4	Currently hypersegregated	666.9
Chicago	Category 5	Currently hypersegregated	528.7
Washington DC	Category 3	Once hypersegregated	515.4
Indianapolis	Category 3	Once hypersegregated	480.3
Flint	Category 5	Currently hypersegregated	350.3
Denver	Category 2	Once hypersegregated	343.9

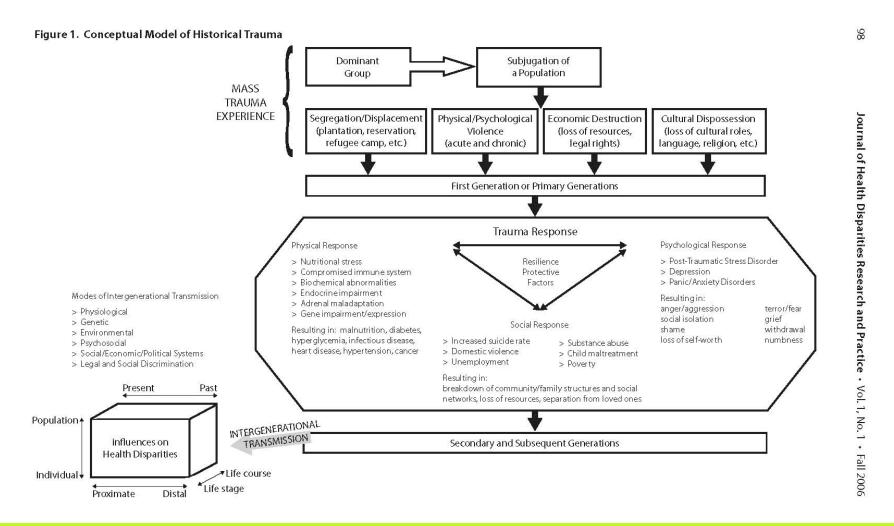
The Damage of Racial Segregation

- Fewer health care facilities in urban areas (Ko et al, 2013) and rural areas (Caldwell et al., 2017)
- Food apartheid and increased obesity (Goodman et al, 2018; Reese, 2019)
- Higher rates of heart disease and stroke (Greer et al., 2013*), blood pressure (Kershaw et al., 2017)
- Worse outcomes in child/youth health (Kotecki et al., 2018*)
- Medical apartheid (White-Means et al, 2009; Washington, 2007; Boyd 2019)
- Increased air pollution (Woo et al, 2019; Grove et al, 2017)
- The historical underdevelopment of Black neighborhoods and under-resourcing of public goods in highly segregated cities (Trounstine, 2018)
- Hyperpolicing both in terms of more fatal police shootings (Siegel et al, 2019) and more excessive force complaints (Smith and Holmes, 2014)
- Overall (Hicken et al., 2019)



Measuring Neighborhoods' Changes in Mobility, in Respon to Coronavirus (Jamie Saxon)

Historical Trauma in America



COVID-19 in Tribal Lands

Counties	Native American Tribal Groups	Percentage Native American in County	Cases per 100,000
McKinley County, New Mexico	Navajo, Hopi, and Zuni	73.3	877.2
Navajo County, Arizona	Navajo, Hopi	43.2	563.3
Apache County, Arizona	White Mountain Apache, Navajo, et al.	72.8	413.9

COVID-19 in State Correctional Institutions

Counties	Institution Name	Institution racial demographics	Cases per 100,000
Lincoln County, Arkansas	The Cummins Unit	54% White, 42% Black (statewide)	5,162.5
Bledsoe County, Tennessee	Bledsoe County Correctional Complex	58% White, 40% Black (statewide)	4,006.3
Marion County, Ohio	Marion Correctional Institution	Almost half White and half Black	3,319.4
Pickaway County, Ohio	Pickaway Correctional Institution	60% White, 38% Black	2,889.2

Solutions

- Spatially contextualize COVID-19 data. By only highlighting COVID-19 inequities by race and ethnicity, we obscure the spatial legacies of colonization and American Apartheid. We're setting people up for COVID-19 stigmatization and demonization by not going to the root.
- **Decolonize and desegregate**. COVID-19 is exposing the spatial legacies of colonization and American Apartheid. To heal from ongoing historical trauma, America must go to the root and repair the damage.
- **Pursue de-carceration**. We need to address crime and violence from a structural level, not just at the individual level. COVID-19 is revealing that overcrowded prisons and mass incarceration are bad for public health.
- Budget to support life. In FY2019, America allocated \$686.1 billion to the Department of Defense and \$90 billion to the Department of Health and Human Services. In FY2018, Baltimore City allocated over \$471.9 million to the Baltimore Police Department from the General Fund while allocating only \$40.8 million to the Baltimore City Health Department. We can't have healthy populations with apartheid budgets.