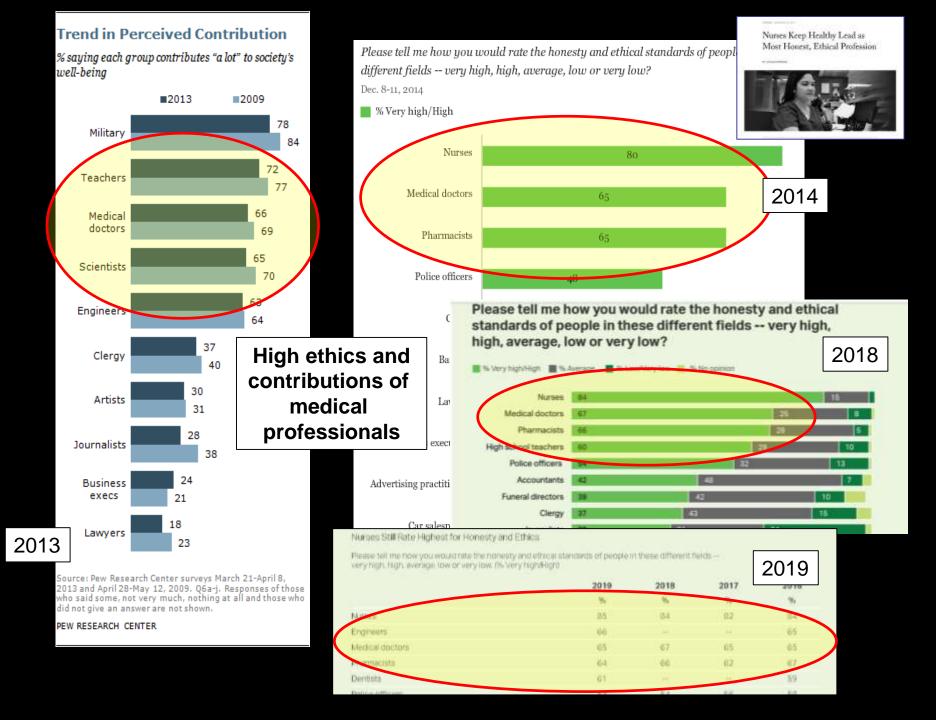


This is Baltimore.

The Impact of Historical Structural Racism on Health

Chuck Callahan, DO, FAAP UMMC Population Health



Doctors for Medicare For All

BY ABIGAIL ABRAMS

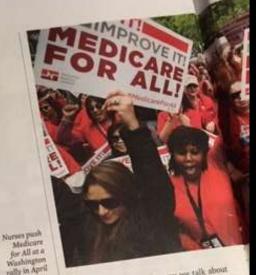
INIAM CALLARAN REMEMBERS THE PATTENT who clarified her decision to become a political activist. He was homeless, suffered from severe arthritis in his hip and was selfmedicating with fistfuls of Advil. That gave him a bleeding gastric ulcer that landed him in the emergency reson at a public hospital. Callaban, who is a medical student at Columbia University, and her colleagues patched him up and sent him back to the shelter, where he began self-medicating once again. He was stuck in a horrific cycle. Arthritis isn't a disease that should kill people, Callahan says, but in this case, it was becoming a real possibility. "It's immoral," she says, "the

In the months since seeing that patient, Callahan has chanway that we treat people in this country. neied ber frustration into political organizing—and she's hardly alone among har fellow medical professionals. With roughly 275 million Americans uninsured and nearly 80 million struggling with medical bills, doctors, names, medical students and other patient, facing professionals are finding themselves on the from lines of a broken system. Like Callahan, many are look. ing for ways to fix it. The result is that the medical field, which was once one of the most conservative professions, is becoming an unlikely hotbed of progressive political activity. One of these advocates' top goals? Single-payer health care, now known most often by its politically charged nickname: Medicare for All. "I don't think I can just be a patient advocate at the bedside."

says Deb Quitito, a 33-year-old nurse in California who has canexceed in support of Medicare for All. "It's our job to proceet out community and so protect any threat to their health.

Single-payer health care was once considered a fringe idea in the U.S. But so were the ideas that led to Medicare and Medicsid, through which the government pays for qualifying citizens medically necessary services. And over the course of the past few years, proposals for a universal single-payer plan have entered the mainstream political lexicon, at least that of one major party. Large majorities of Democratic voters now say they support some version of Medicare for All, and Senators Elizabeth Warren and Bernie Sanders, two of the three top-polling Democratic presidential candidates, have made the policy central to their exemplifies. There are two Medicare for All bills currently pending before Congress. Medical professionals are central to this smooth in popularity. From 2008 to 2017, the share of physicisms who favor single-payer braith care increased from 42% to 56%. according to Merrier-Hawkins, a physician-recruitment firm.

While Medicare for All remains deeply controversial among many Americans—and a nonaturer smong most Republicans obsystems activists insist the tide is beginning to turn. "There's



rally in April

been a sea change in the way we talk about health case reform, says Dr. Adam Caffrey, an instructor at Harvard Medical School and president of Physicians for a National Health Program, which supports single-payer health care. He nates that at a growing to 10 to 15 tors advocate for Medicare | · BUDG B stands a better chants there he \$357 tion. "Whatever telu -1 mais "we need them use the service K work

FOR MOST of the 20th a staunchly Republican gra ran their own practices and operation as una business owners. Their leading trade coo the American Medical Association, redes its members' politics it helped sink atter by Presidents Franklin Roosevelt and Traman to pass universal health care, a the 1960s it waged a pitched, if losing, against Medicare on the grounds that the net for older Americans amounted to en

But over the past generation, both care and the job of being a doctor hav mentally changed. As the insurance expanded, physiciana have moved from their own private practices to being e



TIME October 24, 2019 A New Generation of **Activist Doctors**



Race- and Rank-Specific Infant Mortality in a US Military Population

James S. Rawlings, MD, Michael R. Weir, MD

 Mortality among black infants in the United States is approximately twice that among white infants. The disparity has been attributed in large part to the higher incidence of poverty and limited access to health care among black Americans. We investigated race- and rank-specific infant mortality rates among dependents of military officers and soldiers at Madigan Army Medical Center, Tacoma, Wash, between 1985 and 1990. The overall infant mortality rate was 9.3 deaths per 1000 live births compared with 10.1 deaths per 1000 live births in the United States in 1987. Mortality rates for infants born to families of junior enlisted soldiers were similar to those for infants born to families of noncommissioned and commissioned officers. The mortality rate among black infants was 11.1 deaths per 1000 live births compared with 17.9 deaths per 1000 live births among all black Americans in 1987. These lower rates of mortality among black infants may be due to guaranteed access to health care and higher levels of family education and income in the multiracial subpopulation served by our medical center compared with the nation as a whole.

(AIDC, 1992;146:313-316)

The United States ranks 22nd in infant mortality among large industrialized nations. There were 10.1 deaths in the first year of life per 1000 live births in the United

1000 live irths in Japoverty and limited access to health care affecting large segments of the black American population. These risk factors are not characteristic of the families of US military personnel on active duty, an easily identifiable subpopulation that is ethnically representative of the general public. Thus, mortality rates at a large US military health care center may reflect the potential effects of eliminating these factors in the nation as a whole.

METHODS

Data were complete for all live births and infant deaths among dependents of active-duty military personnel at Mailigan Army Medical Center (MAMC), Taconsa, Wash, between 1985 and 1990. These data were collected through a comprehensive review of MAMC medical records. Locally recorded data were cross-checked for accuracy and completeness with data printouts provided by the Services and Biostatistics Activity, Patient Administration Division, Office of the Surgeon General, Department of the Army. Infants born at MAMC whose deaths were recorded at any other medical facility of the worldwide US Army Health Care Delivery System were identified by matching birth dates and parents' Social Security numbers.

Information available about each birth included birth weight, gostational age, length of neonatal biospital stay, race, gender, age at death (if applicable), dependency status, rank of active-duty parent, and all medical diagnoses. Racial designations were assigned according to parental preferences as amoutated on birth certificates. Each infant was assigned the race of his or her mother. Tabulations of infant deaths were based on year of oc-

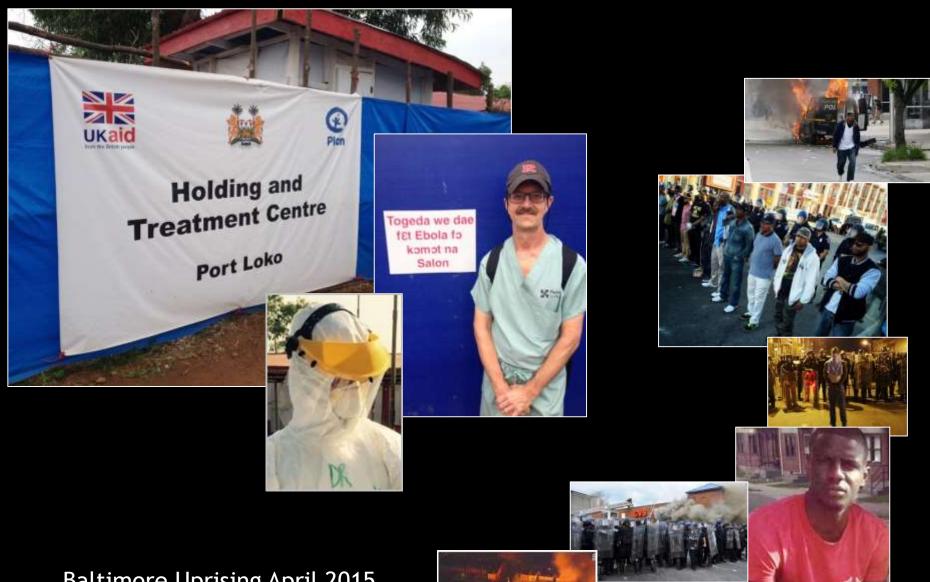
Table 2.—Prevalence of Factors Relating to Outcome of Pregnancy*											
Race	Preterm Delivery, No. of Weeks' Gestation			Low Birth Weight, kg			Length of Hospital Stay, d				
	<37	<30	<26	<2.5	<1.5	<1.0	>7	>14	>28		
White	90.6	7.8	2.9	65.2	11.8	5.3	51.7	24.2	9.8		
Black	121.7	17.6	6.5	113.3	26.0	13.0	86.4	39.0	18.4		
Other	95.4	8.8	2.6	77.9	15.8	7.9	53.4	22.8	11.4		
All	96.2	9.5	3.5	74.2	14.5	6.8	58.0	26.6	11.4		

*All values are number of cases per 1000 live births. All differences between white and black infants were highly significant (P<.01); all differences between white infants and infants of other races were not significant.

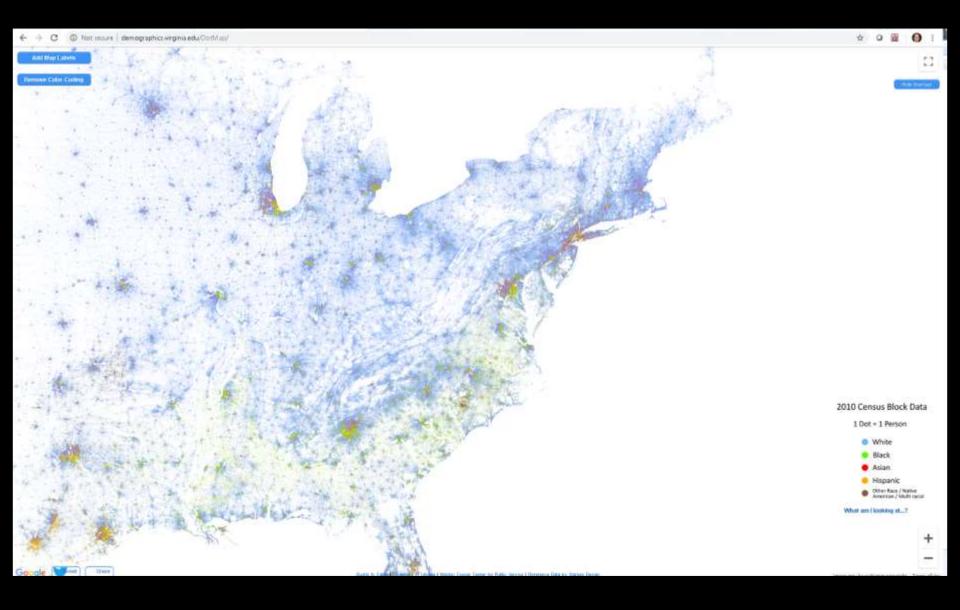
Table 1.—Race-Specific Neonatal, Postneonatal, and Infant Mortality

Race	No. of Live Births	Neonatal	Postneonatal	Infant	IMR*
White	11.740	81	25	106	9.03
Black	2613	21	8	29	11.10
Other	1142	6	3	9	7.88
Total	15 495	108	36	144	9.29

*IMR indicates infant mortality rate. Values are number of deaths per 1000 live births.

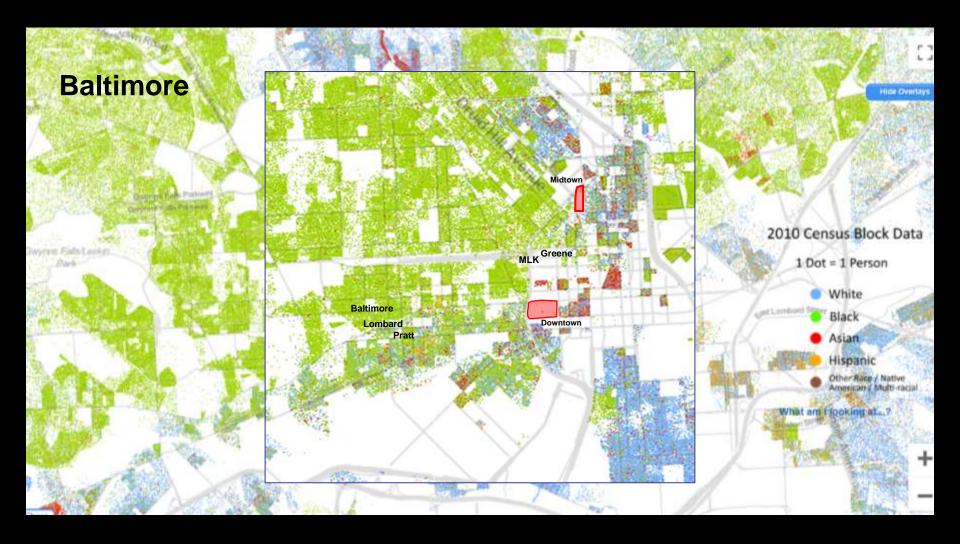


Baltimore Uprising April 2015
The Death of Freddie Gray





Dot Map: One dot by race for every person on 2010 census



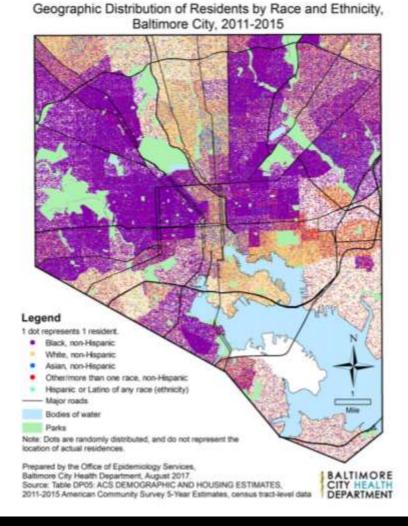


Dot Map: One dot by race for every person on 2010 census

White "L" & the Black Butterfly



Lawrence Brown, PhD Associate Professor School of Community Health & Policy Morgan State University

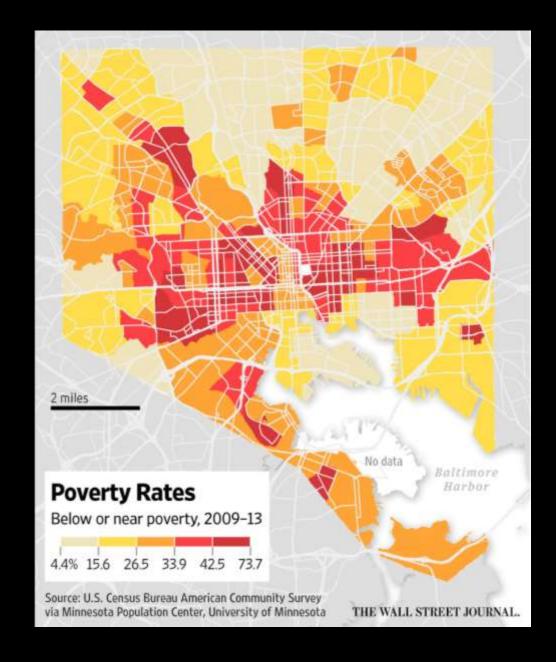




Structural Racism:

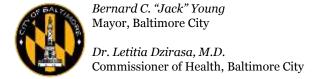
Normalization and legitimization
of an array of dynamics
- historical, cultural, institutional and
interpersonal that routinely advantage whites while
producing cumulative and chronic adverse
outcomes for people of color

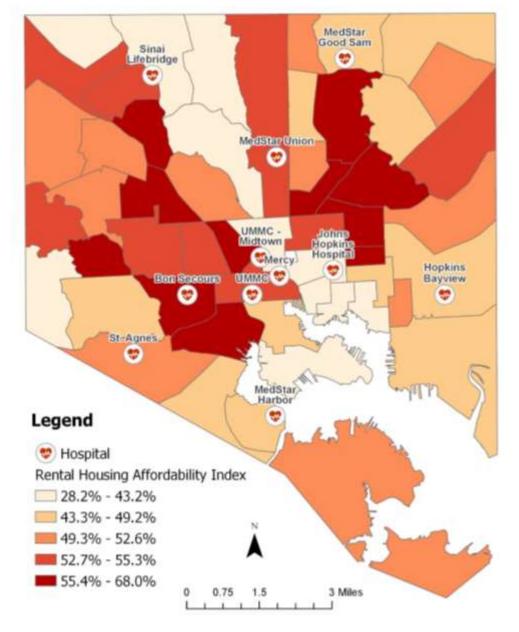
Poverty and the Butterfly



Rental Housing Affordability Index by Community Statistical Area and Hospital Locations, **Baltimore City,** 2016

Percent of households that pay more than 30% of their total household income on rent and related expenses out of all households in an area



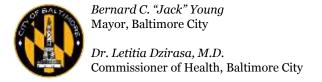


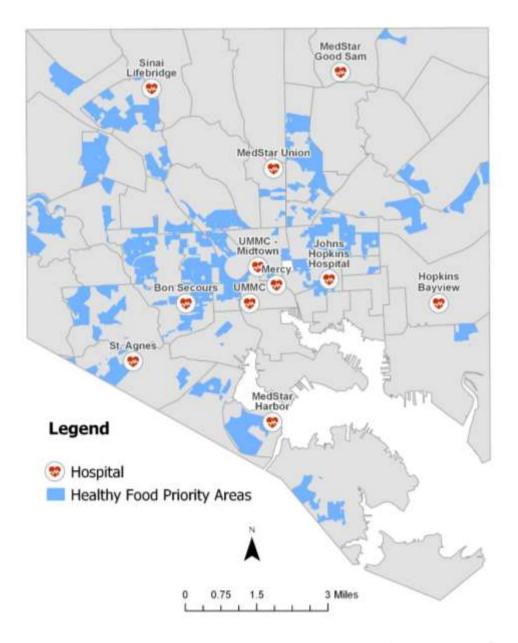
American Community Survey, 2016, 5-year estimate



Healthy Food Priority Areas by Community Statistical Area and Hospital Locations, **Baltimore City,** 2018

Healthy Food Priority Areas 2018 shapefile downloaded from https://hub.arcgis.com/

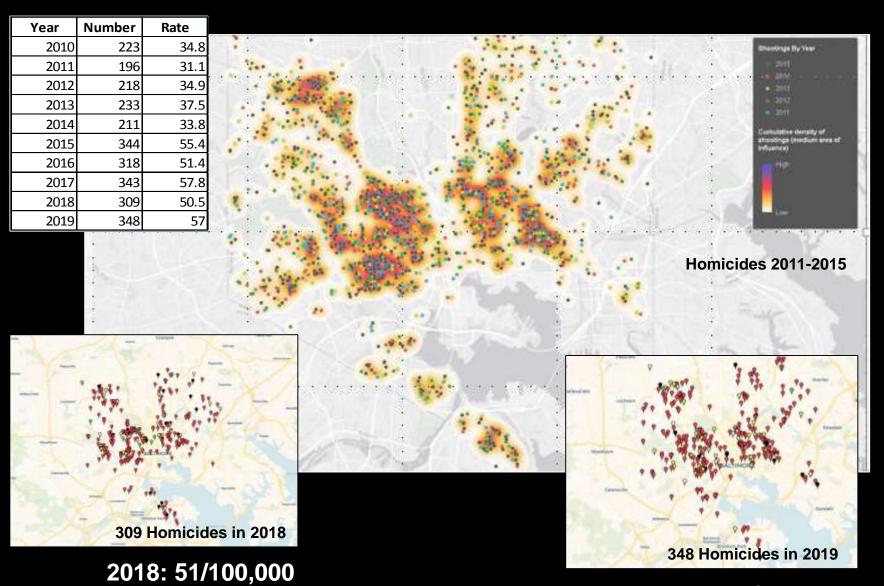






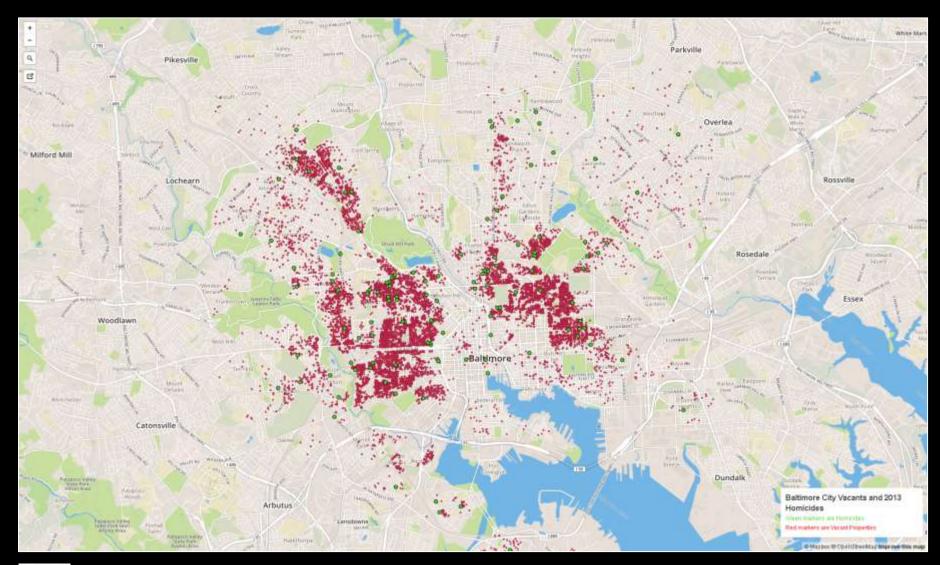
Violent Crime and the Butterfly

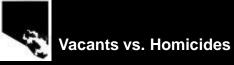




2019: 57/100,000

Overlap: Poverty, Violence and the Butterfly





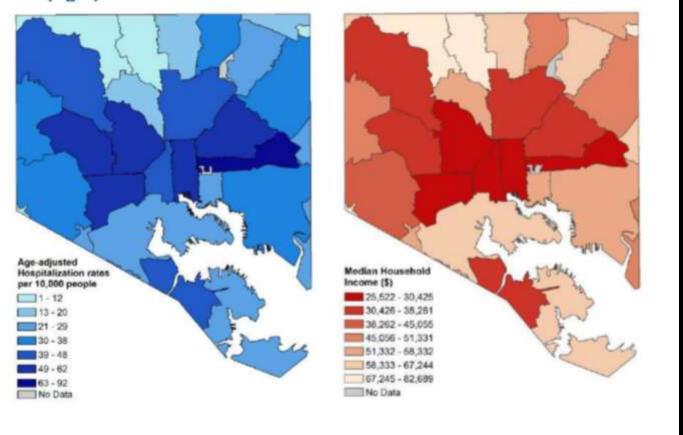
Asthma and Air Pollution in Baltimore City



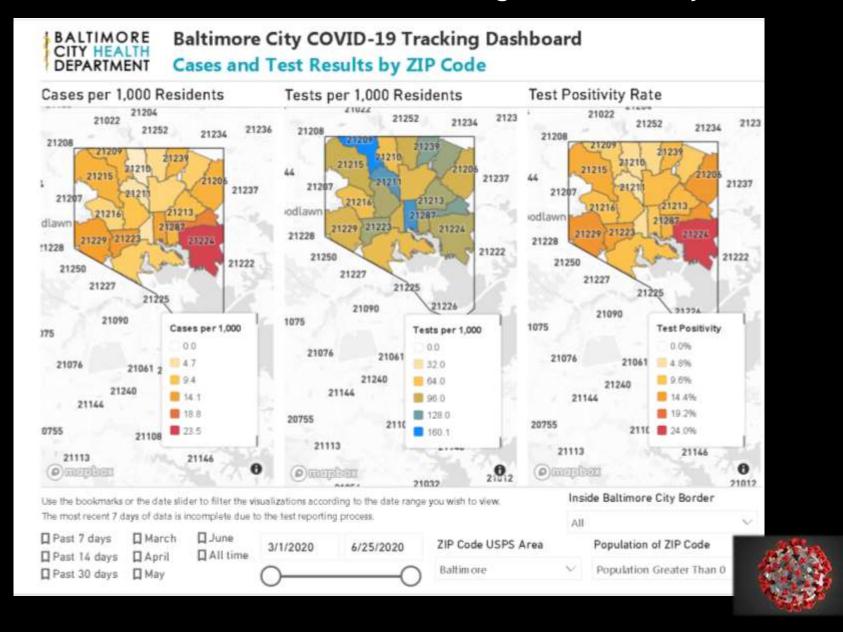


2013: Asthma Hospitalization Rate follows the "Butterfly"

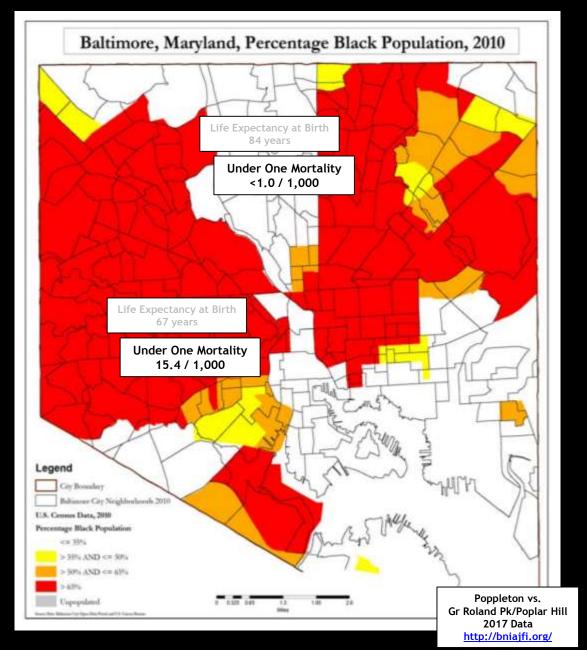
Figure ES-5. 2013 Asthma Hospitalization Rates (left) and 2013 Median Household Income (right)



Four Months of COVID Data: Following the Butterfly?

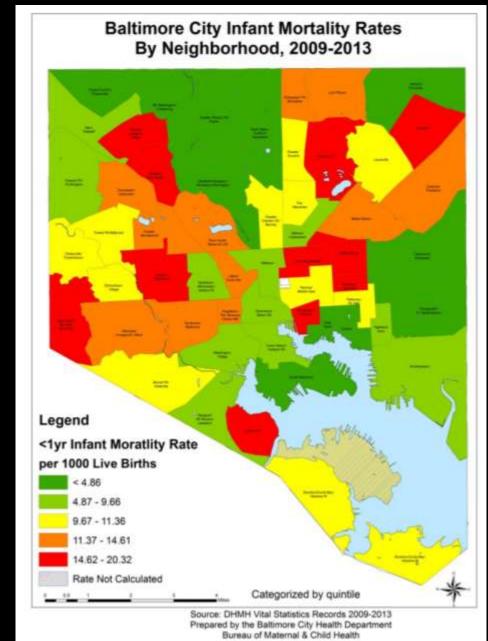


Health Outcomes and the Butterfly





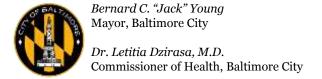
Infant Mortality and the Butterfly

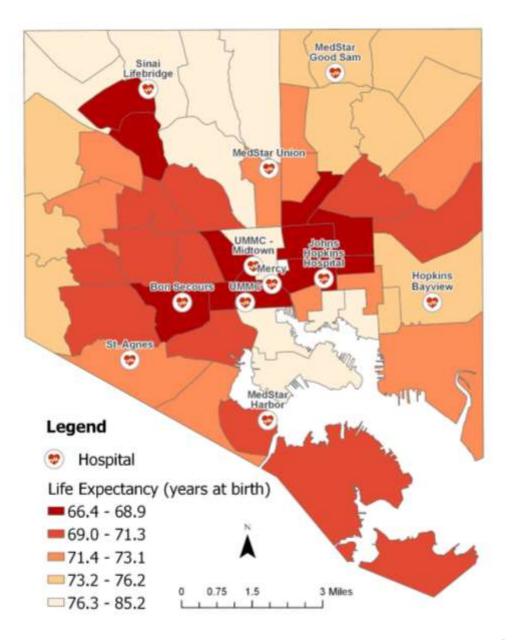




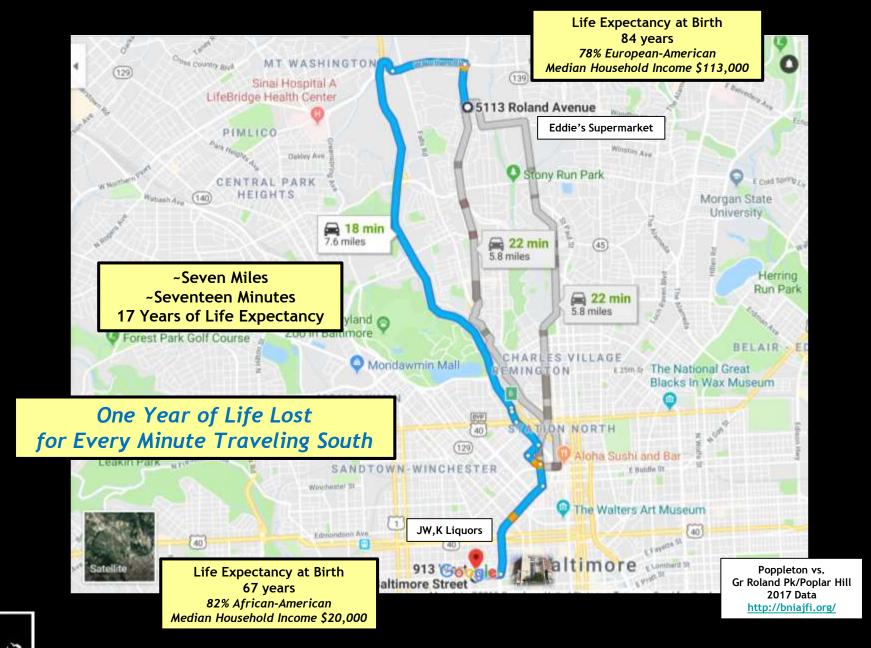
Life Expectancy by Community Statistical Area and Hospital Locations, Baltimore City, 2012-2016

BCHD analysis of data provided by the Maryland Department of Health Vital Statistics Administration











BALTIMORE IN 1752,

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- Germans & Irish
 -Mid-19th century
- Polish
 - -Fells Point
- Russian Jews & Italians
 - -East Bank Jones Falls
- African-Americans
 - -Hughes St. west of Fed Hill
 - -Pigtown west of Camden Stn
 - -Biddle Alley south of Druid St

Power G. Deconstructing the Slums of Baltimore. Maryland Historical Society 2002.



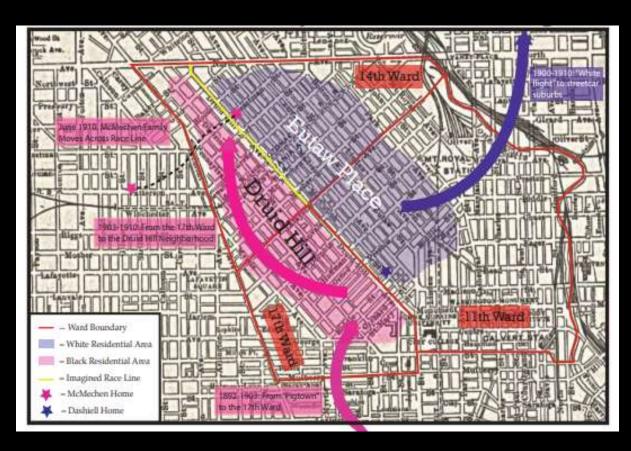






Racially Designated Blocks 1910 to 1917



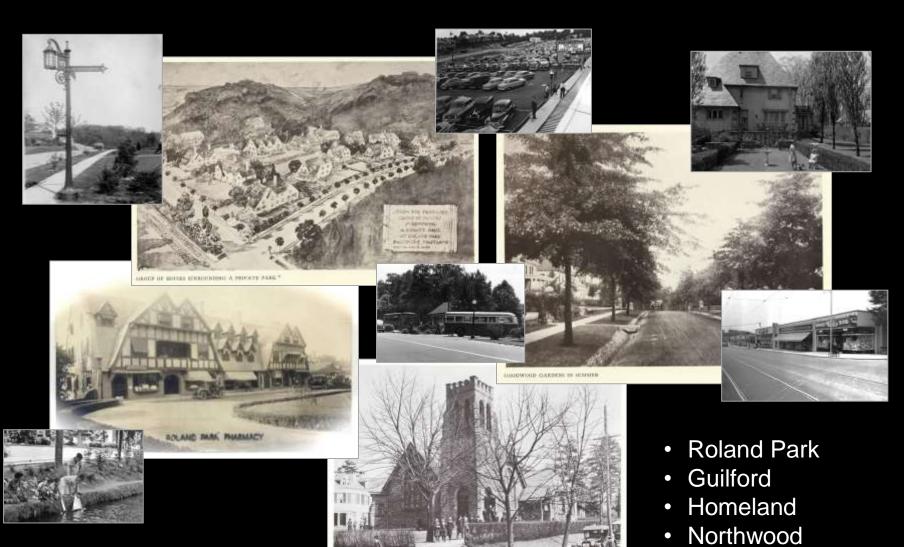


Betsy Nix, PhD



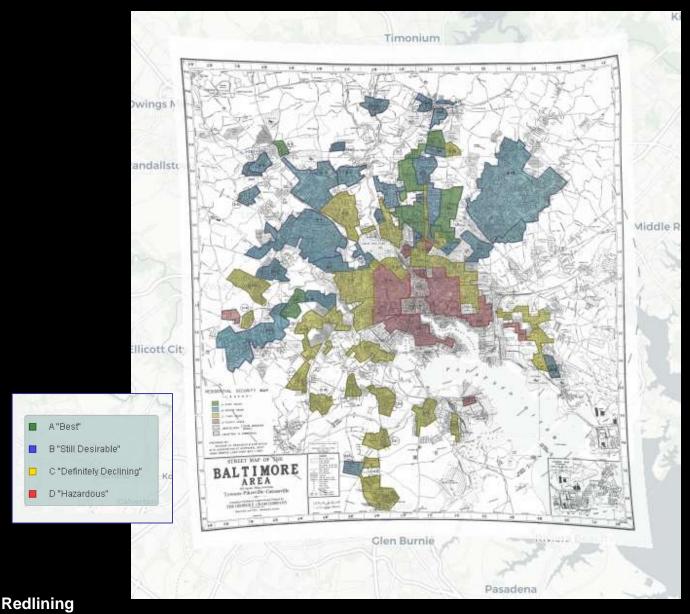


Restrictive Covenants 1918 to 1948

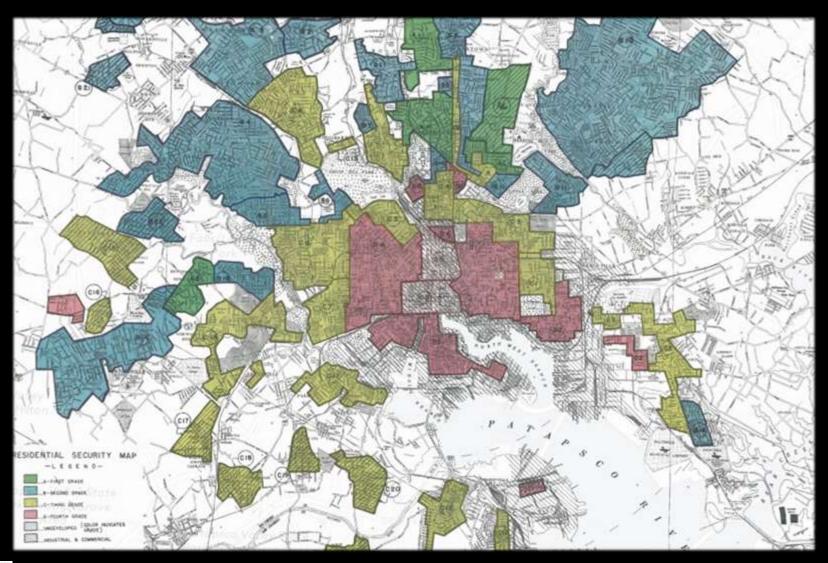




"Red-Lining" 1937 and after

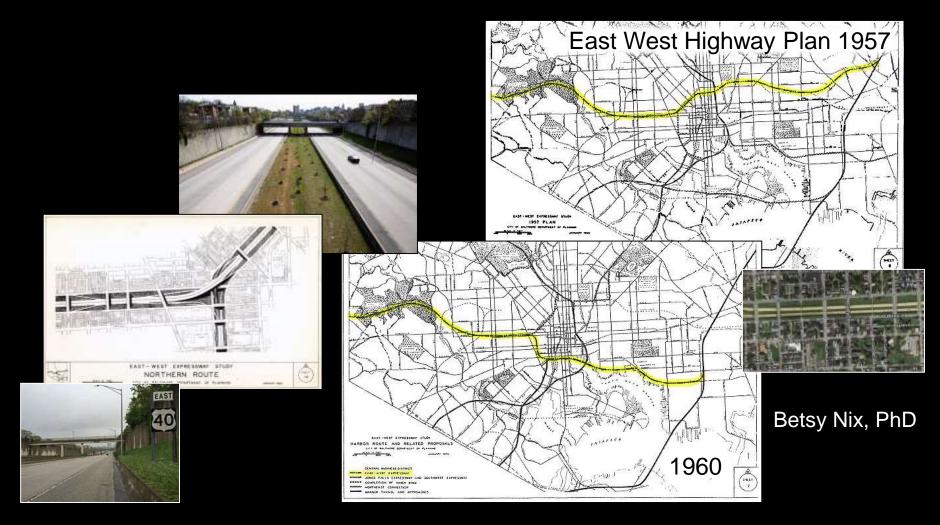


"Red-Lining" 1937 and After





Roads 1957 "East/West" Highway







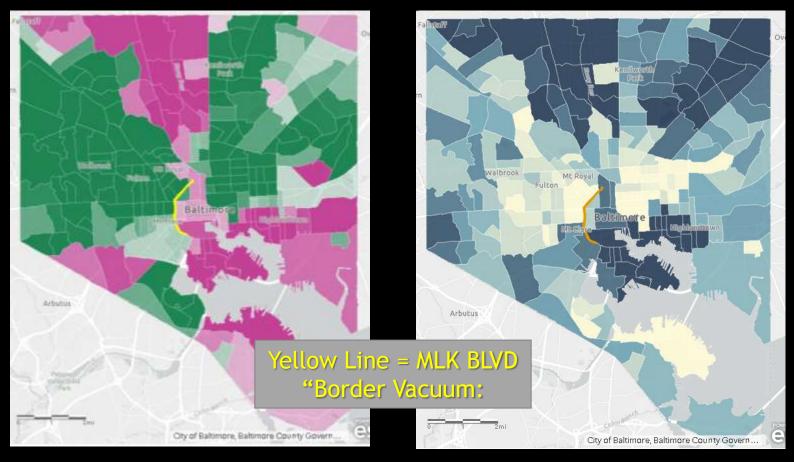
Real Estate Practices: "Blockbusting"



Revitalization: 1958, 1976, 2017



Significance of Martin Luther King Boulevard



Racial Difference:
Green African American
Pink Euro-American
(Darker the shade the greater the > %)

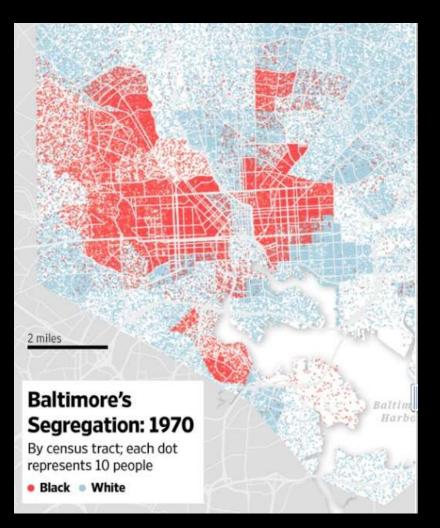
Household Income

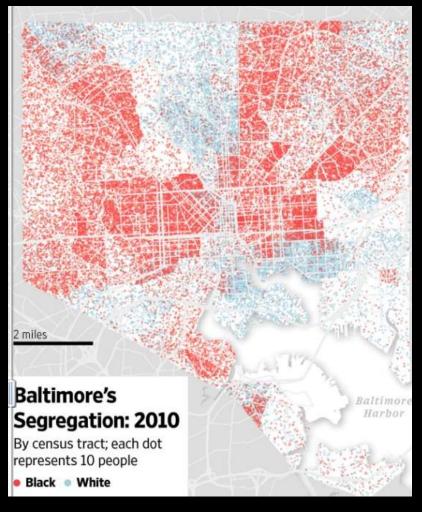
Darker the blue > household income





Progress?







Implicit bias.

Arise from unconscious beliefs.

- Skin-tone ('Light Skin Dark Skin' IAT)
- Native American IAT
- Presidents IAT
- Race IAT
- Weapons IAT
- Age IAT
- Religion IAT
- Arab-Muslim IAT
- Gender-Science IAT
- Gender-Career IAT
- Asian IAT
- Sexuality IAT
- Weight IAT
- Disability IAT



Implicit Association Test





"People fail to get along because they fear each other; they fear each other because they don't know each other; they don't know each other because they have not communicated with each other."

Martin Luther King, Jr







Listen & Learn.



Stand.



Speak.



Invest & Enlist.









SPECIAL ARTICLES Science and Empiricism in Pediatrics Richard B. Goldbloom, MD, FRCP From the Department of Padiatrics, Dalhouse University, Helitax, Nove Scotis, Careda Whatever the duration of your experience in One of our peculiar inconsistencies is that the looking after children, it doesn't take many years right with which we apply the rules of sciontific before you can look back with some amusement on print is highly situational. Before we allow a new ahandoned practices in child care. The further you vaccine or natibiotic to be released for use among retrospect, the more ludicrous some of the antique the general public, we and our governments insist rustions seem-proving the fundamental equation on the critical review and publication of carefully that comedy equals tragedy plus time. controlled trials, first in laboratory animals and As we read or listen to scientific presentations finally in groups of consenting humans. We do this laden with chi squares and P values-measures of to ensure efficacy, effectiveness, and efficiency. But a significance that is sometimes more mathematical let someone describe a new surgical procedure for

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"Each of us bears a personal responsibility to leave the state of pediatric care better than we found it."

Goldbloom R. *Pediatr* 1984:73;693-698





"Each of us bears a personal responsibility to leave Baltimore and the people of Baltimore better than we found them."



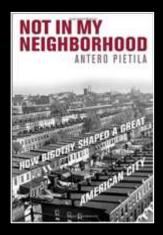




To Learn More...

This is Baltimore.

Chuck Callahan, DO, FAAP UMMC Population Health charlescallahan@umm.edu

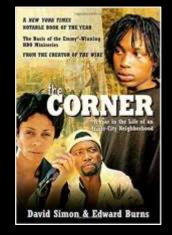


How racism drove economics and real estate development in Baltimore.



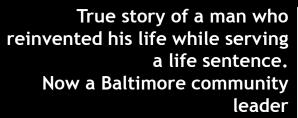


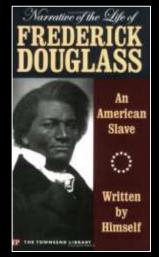




The book that inspired "The Wire."

A year in the life of the drug
culture and those it affected.





Autobiography of one of America's most famous former-slaves, who grew up and labored in Baltimore.

