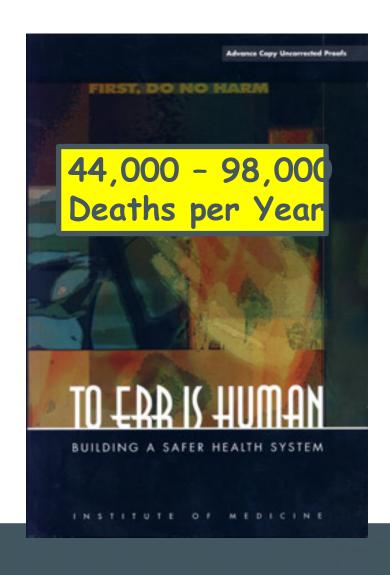


The Transformation of Health Care: The Moral Determinants of Health

Donald M. Berwick, MD
President Emeritus and Senior Fellow
Institute for Healthcare Improvement



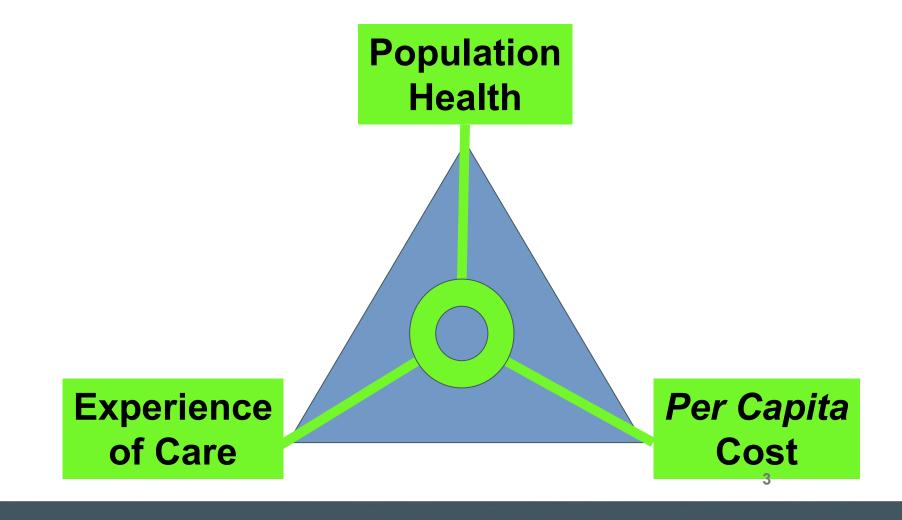
Institute of Medicine – 1999 & 2001





A New Health System for the 21st Century

The Triple Aim



How to Interrogate Health Care "Reform"

- Universal Coverage
- Improving Quality
- Improving Social Determinants of Health
- Reducing per Capita Costs

All now in the context of...

- COVID-19 and Future 21st Century Threats
- George Floyd, Structural Racism, and Mobilization



Viewpoint | COVID-19: Beyond Tomorrow

ONLINE FIRST FREE

May 4, 2020

Choices for the "New Normal"

Donald M. Berwick, MD, MPP1

» Author Affiliations | Article Information

JAMA. Published online May 4, 2020. doi:10.1001/jama.2020.6949



he severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has only 15 genes, compared with 30 000 in the human genome. But it is a stern teacher, indeed. Answers to the questions it has raised may reshape both health care and society as a whole.

No one can say with certainty what the consequences of this pandemic will be in 6 months, let alone 6 years or 60. Some "new normal" may emerge, in which novel systems and assumptions will replace many others long taken for granted. But at this early stage, it is more honest to frame the new, post-COVID-19 normal not as predictions, but as a series of choices. Specifically, the pandemic nominates at least 6 properties of care for durable change: tempo, standards, working conditions, proximity, preparedness, and equity.



Choices for "The New Normal"

- Speed of Learning and Change
- Standardization and Commitment to Science
- Virtual Care and Reconsidering "Proximity"
- Protecting the Workforce
- Preparedness
- Inequity



Justice and the Health Care Workforce

CORONAVIRUS

They're Working In Healthcare During A Pandemic. They Don't Get Health Insurance.

"As a nurse or a doctor, at least you're getting paid a decent amount of money to risk your life," one hospital clerical worker earning \$15 an hour told BuzzFeed News.

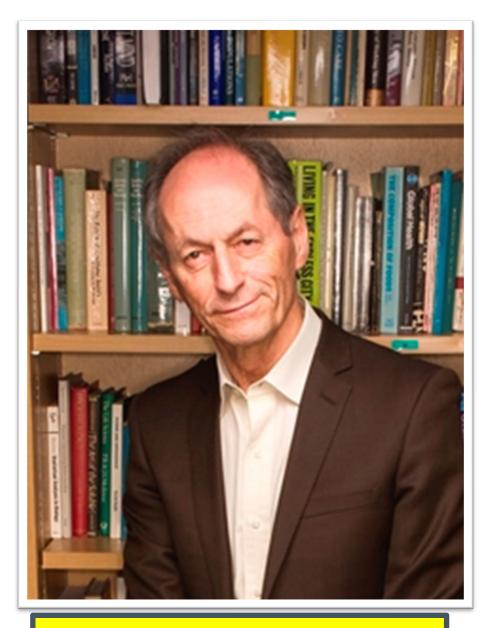


Posted on May 13, 2020, at 3:10 p.m. ET

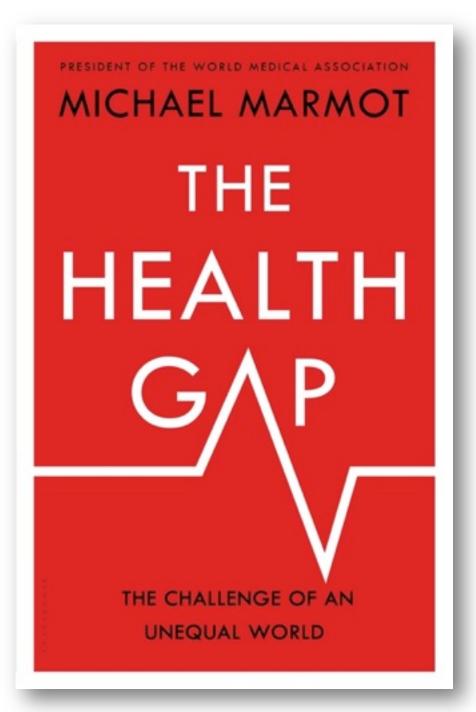


"More than 800,000 healthcare workers and almost 1.1 million of their children live in poverty across the US, according to a 2019 study published in the <u>American Journal of Public Health</u>. The researchers found that roughly 18.5 million people are employed in the US health industry. And nearly 10% of them — 1.7 million — earn so little that they get healthcare through Medicaid. Another 1.4 million have no health insurance at all."





Sir Michael Marmot





The Social Determinants of Health

- 1. Early Childhood Experiences
- 2. Education
- 3. Work and the Workplace
- 4. Experiences of Elders
- 5. Community Resilience
- 6. Fairness



"Inequities in power, money, and resources give rise to inequities in the conditions of daily life, which in turn lead to inequities in health."

- Sir Michael Marmot

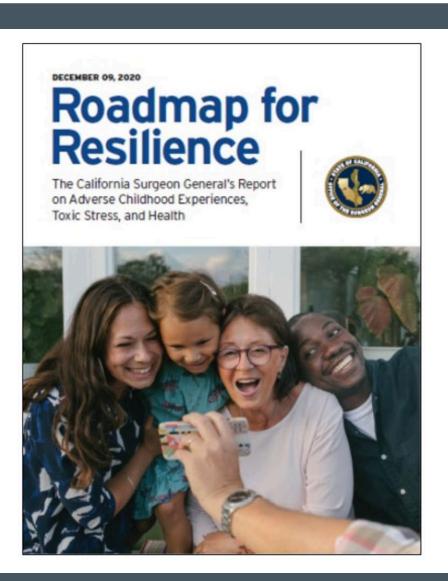


California Surgeon General's Report

December 9, 2020

Available Now: First California Surgeon General's Report

- Materials available at <u>https://osg.ca.gov/sg-report/</u>
 - Full 438-page report
 - Executive Summary
 - 12 briefs summarizing key themes
 - Social Media Toolkit
 - Public webinar





Effects of "Adverse Childhood Experiences"

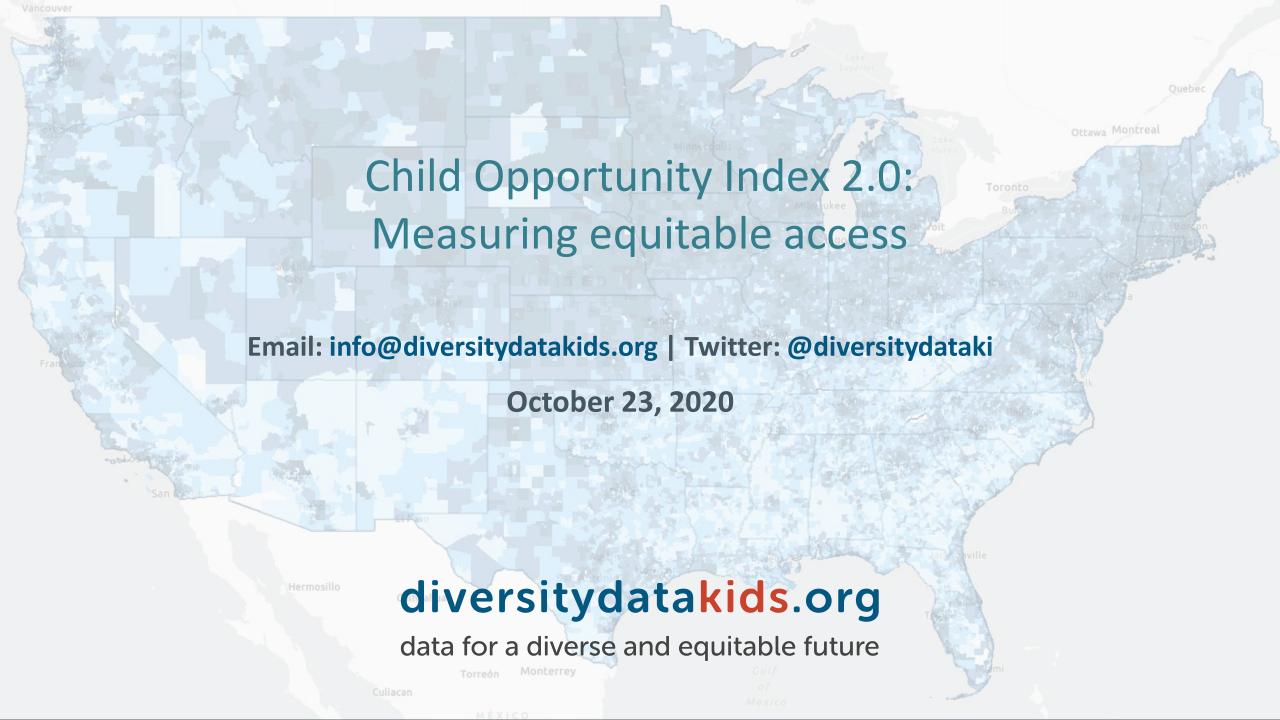
ACEs Dramatically Increase Risk for 9 out of 10 Leading Causes of Death in US

	Leading Causes of Death in US, 2017	Odds Ratio Associated with ≥ 4 ACEs
1	Heart Disease	2.1
2	Cancer	2.3
3	Accidents	2.6
4	Chronic Lower Respiratory Disease	3.1
5	Stroke	2.0
6	Alzheimer's	11.2
7	Diabetes	1.4
8	Influenza and Pneumonia	Unknown
9	Kidney Disease	1.7
10	Suicide (Attempts)	37.5

Child Opportunity Index 2.0







Education

Health & Environment

Social and Economic

Early childhood education (ECE)

ECE centers within five miles
High quality ECE centers within
five miles
ECE enrollment

Primary school

Third grade reading proficiency Third grade math proficiency

Secondary and postsecondary

High school graduation rates AP enrollment College access/enrollment

Resources

School poverty
Teacher experience
Adult educational attainment

Healthy environments

Access to healthy food Access to green space Walkability Housing vacancy rates

Toxic exposures

Superfund sites
Industrial pollutants
Microparticles
Ozone
Heat

Health care access

Health insurance coverage

Economic opportunities

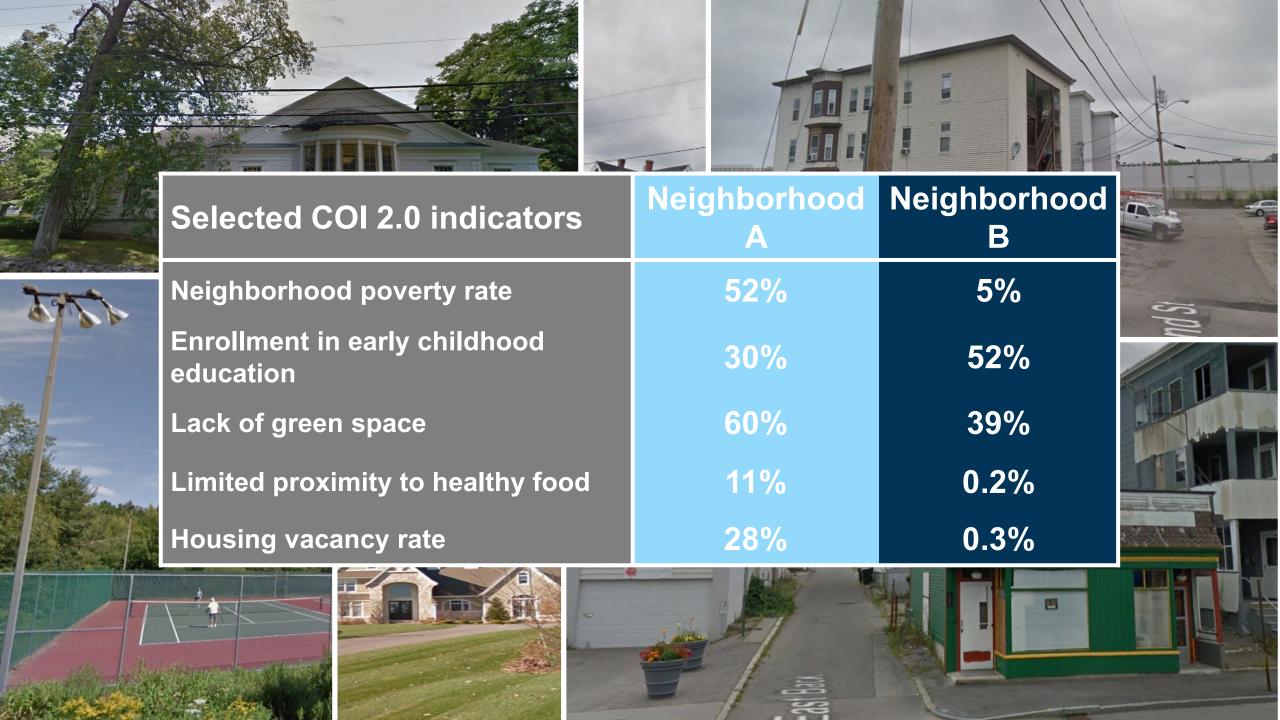
Employment rate
Commute duration

Economic resource index

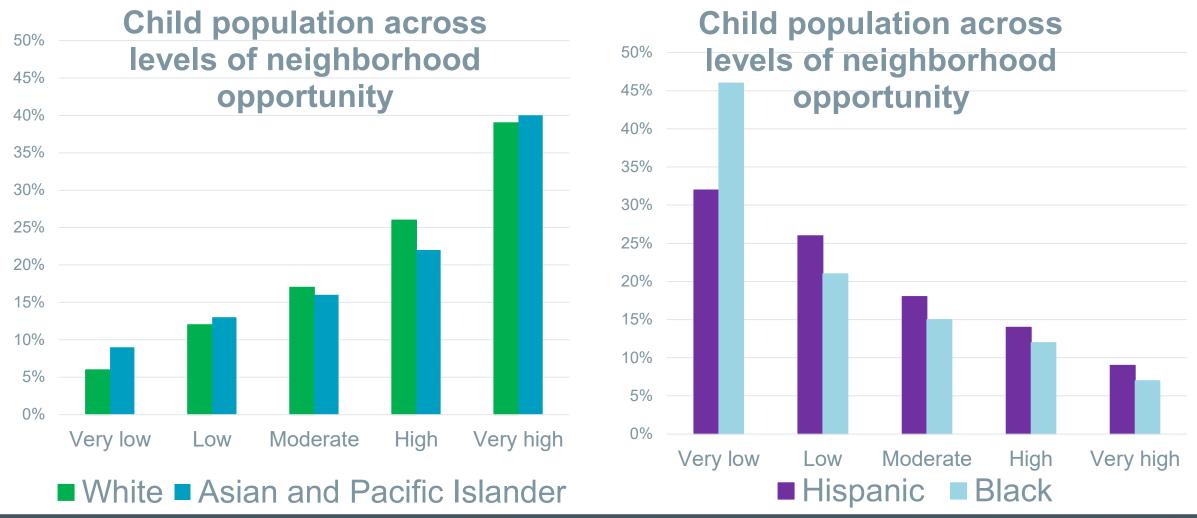
Poverty rate, public assistance rate, high skill employment, median household income, home ownership

Family structure

Single parenthood



The majority of Black and Hispanic children live in very low- or low-opportunity neighborhoods

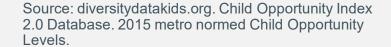


BALTIMORE-COLUMBIA-TOWSON METRO AREA

Child Opportunity Levels

Child Opportunity Levels group neighborhoods into five levels from very low to very high opportunity, containing 20% of the metro child population each.



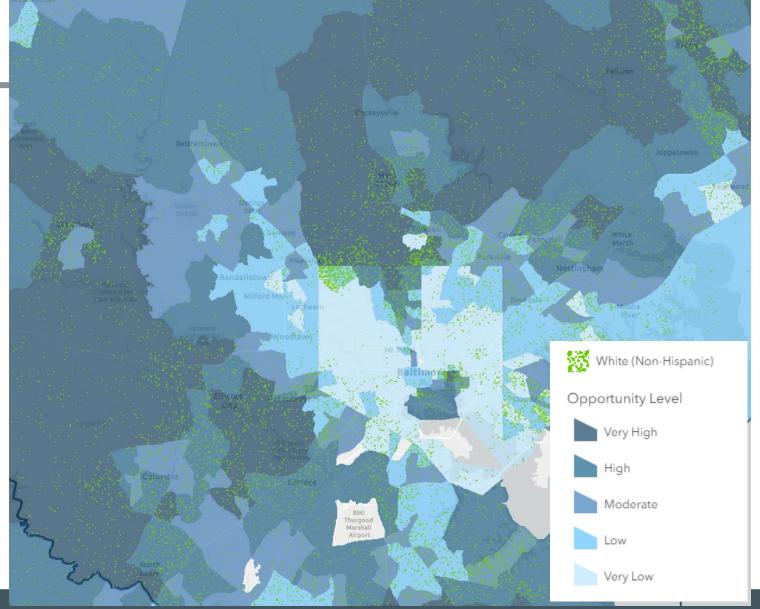


BALTIMORE-COLUMBIA-TOWSON METRO AREA

White children's access to neighborhood opportunity

Child Opportunity Levels

1 Dot = 20 children aged 0-17 years



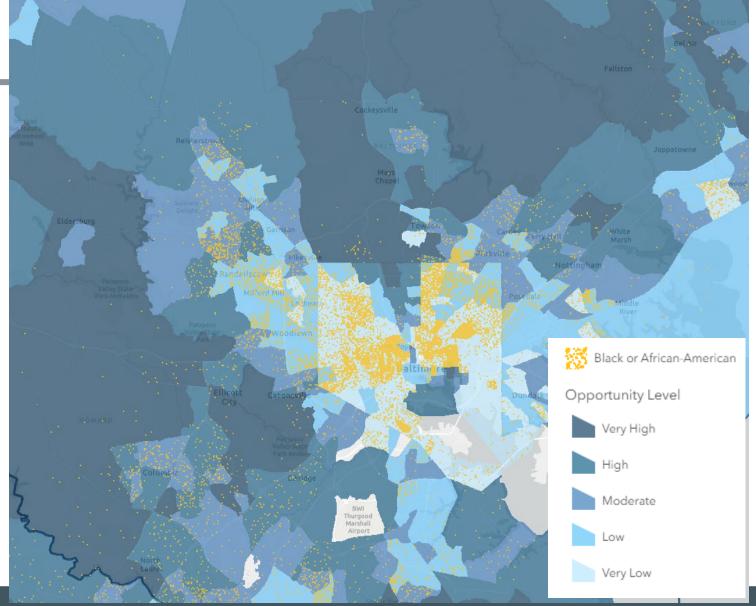


BALTIMORE-COLUMBIA-TOWSON METRO AREA

Black children's access to neighborhood opportunity

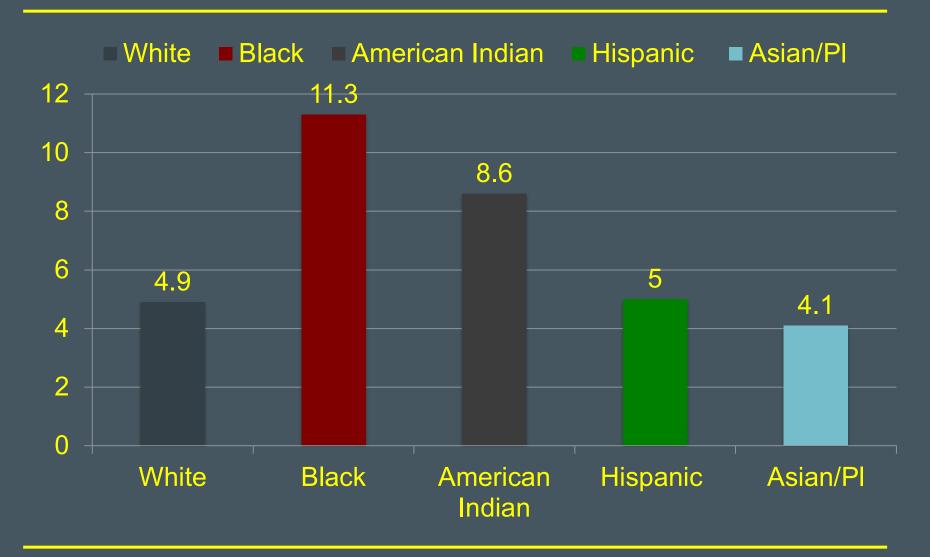
Child Opportunity Levels

1 Dot = 20 children aged 0-17 years



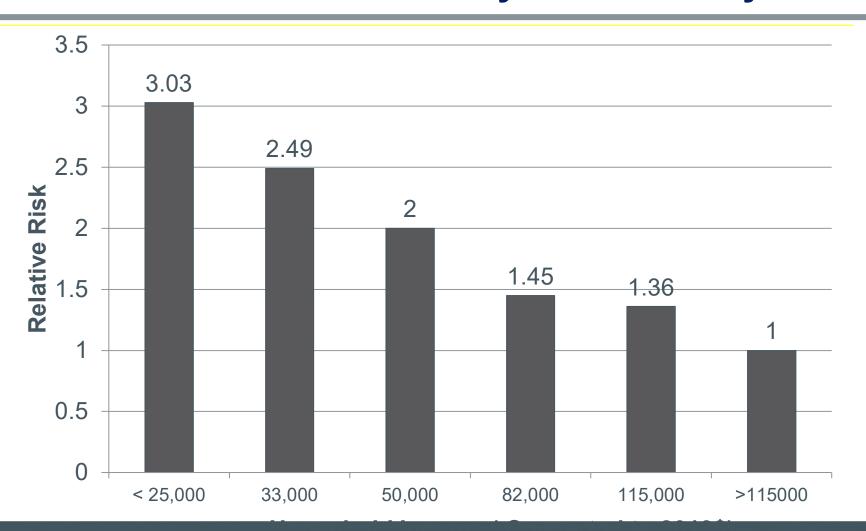


Infant Mortality in the U.S., 2015



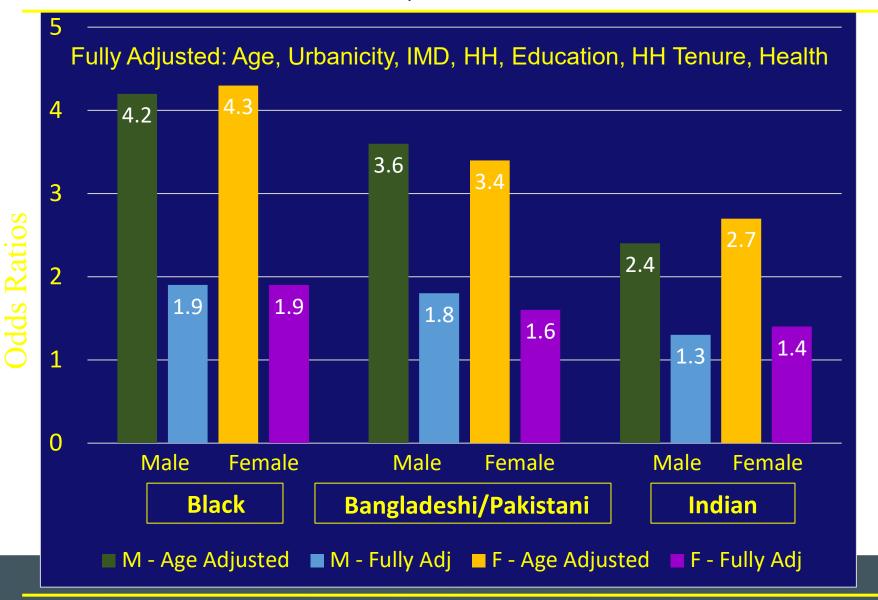


Relative Risks of All-Cause Mortality by Household Income Level: U.S. Panel Study of Income Dynamics

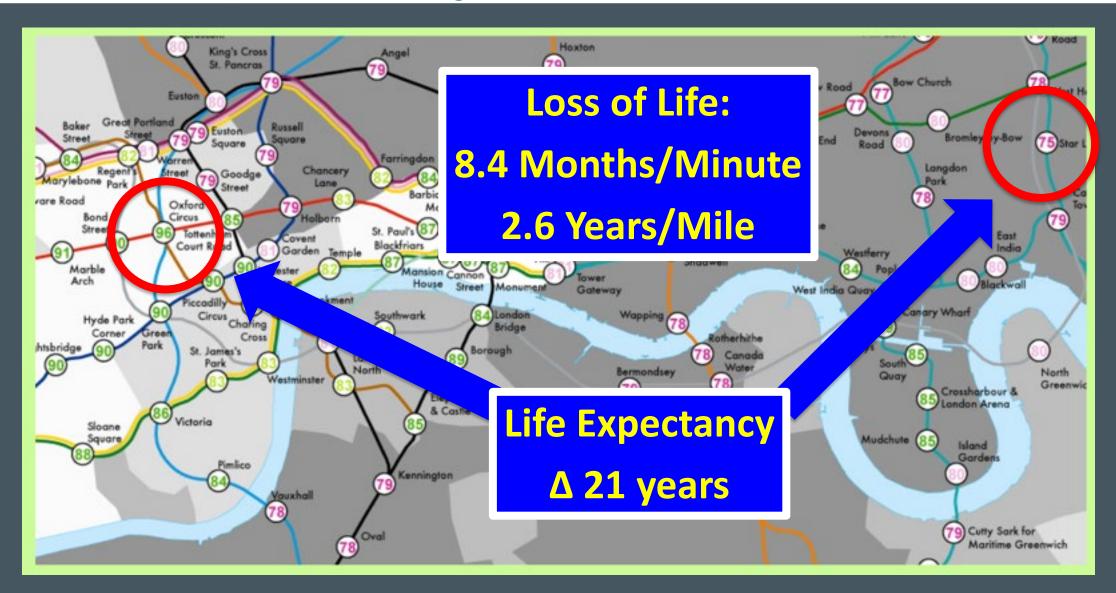




Covid-19 Deaths, Relative to Whites

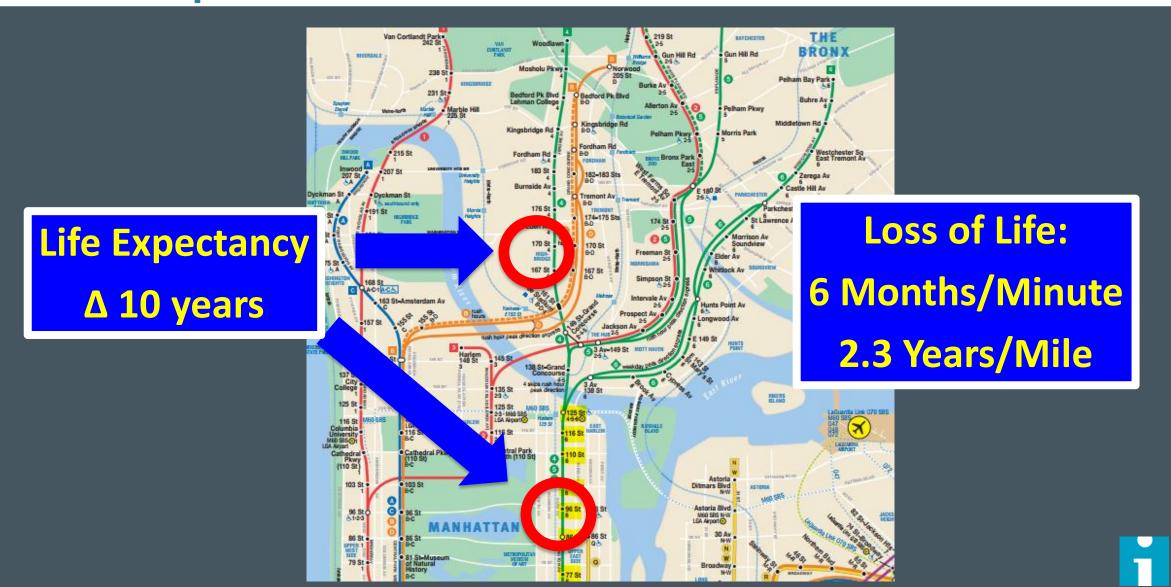


Life Expectancy and the London Tube





Life Span and Life Circumstances



"6 months for every minute on the subway; 3.2 years for every mile travelled."



Open Access

BMJ Open The effect of statins on average survival in randomised trials, an analysis of end

The effects of statins on average survival.... "Death was postponed between -5 and 19 days in primary prevention trials and between -10 and 27 days in

secondary prevention trials."

¹Department of Clinical

widely prescribed drugs overall.3

should be prescribed to all patients manifest- be conveyed by an estimate of the average posting ischaemia and to other patients at high ponement in the occurrence of the end point risk,1 2 and that statins are among the most for all treated.4 It has been shown that patients are more responsive to values of postpone-The magnitude of their preventive effect is ment than to values of NNT. Technically, the controversial; also controversial is how such average postponement can be calculated as

M. Kristensen, P. Christensen, J. Hallas; BMJ 2015; 5:

20 Days of Your Lifespan Equals:



Taking Statins for 20 Years



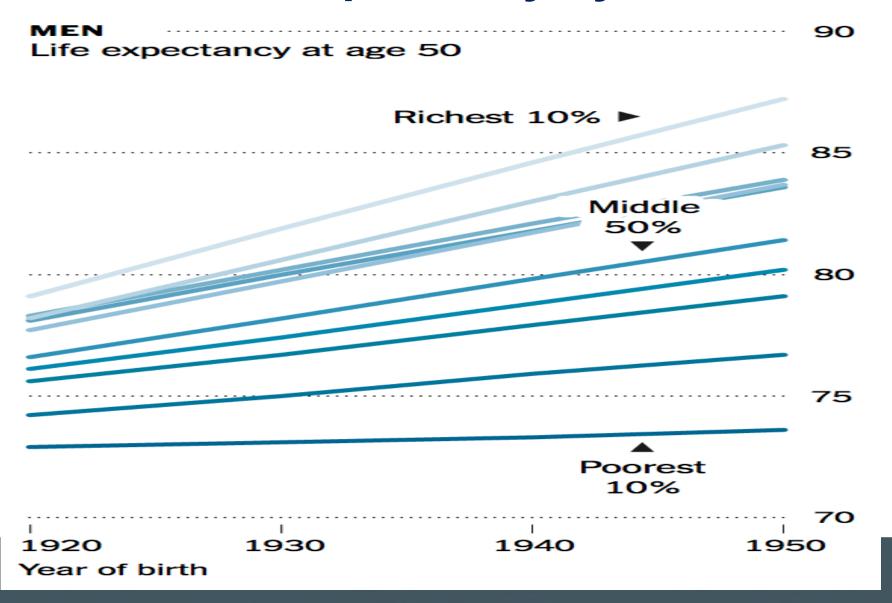
Riding the D Train for 7 Seconds



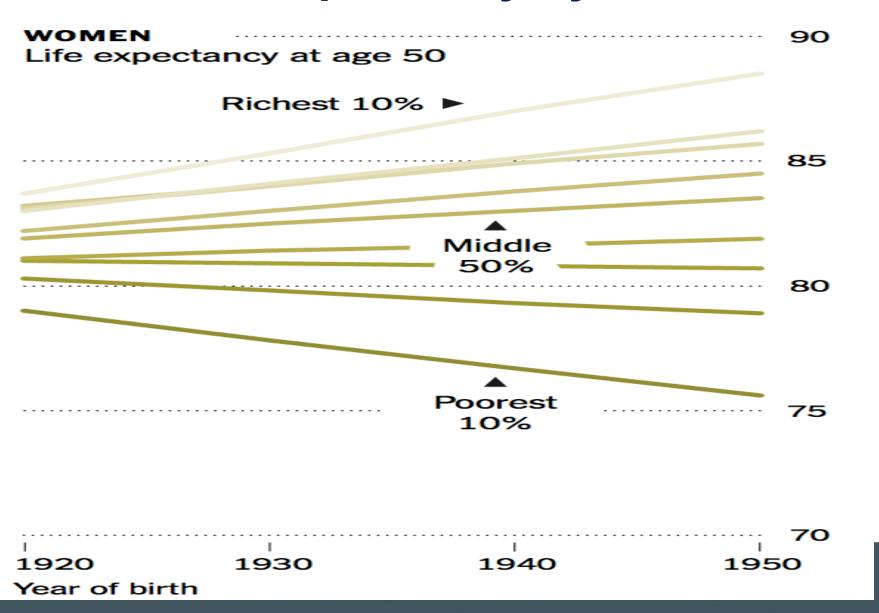
Riding the Glasgow Bus for 43 Feet



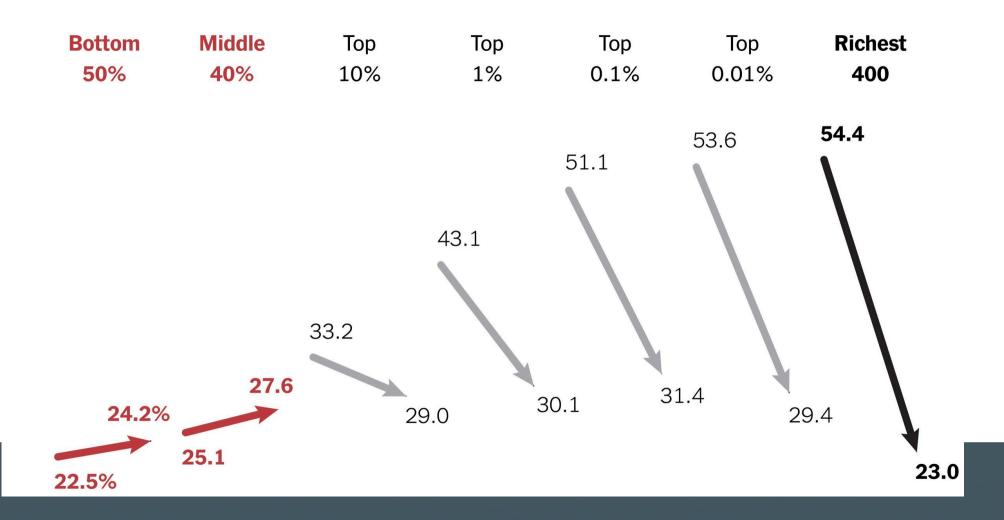
US Life Expectancy by Year of Birth



US Life Expectancy by Year of Birth



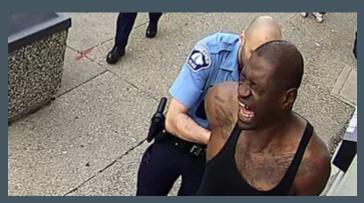
Change in Effective Tax Rates 1962-2018 USA



Institutional Racism and the "Moral Law"











A Campaign for Moral Determinants of Health

- 1. Achieve US ratification of major human rights treaties.
- 2. Make health care unequivocally a human right in our nation.
- 3. Restore American leadership to reverse climate change.
- 4. Achieve radical reform of our nation's criminal justice system.
- 5. End policies of exclusion and achieve compassionate immigration reform.
- 6. End hunger and homelessness in our nation.
- 7. Restore order, dignity, and equity to our democratic institutions, and assure the right of every single person's vote to count equally.



A Key Question:

What can employers do to help set and achieve aims in the social and moral determinants of health?



Thank you!

