

October 26-28, 2020

Maternal & Infant Health in the Digital World:

Patient-Centered Care During COVID and Beyond

VIRTUAL CONFERENCE

hmhbga.org/event/beyondcovid2020

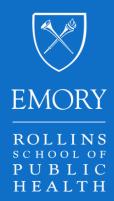
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A health equity approach to addressing maternal morbidity & mortality:

Where is inequity and what can we do to improve maternal health?

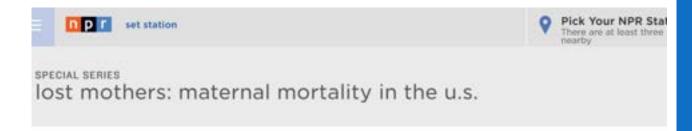


Michael Kramer, PhD, Emory University

mkramoz@emory.edu

2020 Conference: Maternal & Infant Health in the Digital World

America stands alone: Maternal mortality



The New York Times

Maternal Mortality Rate in U.S. Rises, Defying Global Trend, Study Finds

By Sabrina Tavernise

Sept. 21, 2016

WASHINGTON — One of the biggest worldwide public health triumphs in recent years has been maternal mortality. Global death rates <u>fell by more than a third</u> from 2000 to 2015. The United States, however, is one of the

U.S. Has The Worst Rate Of Maternal Deaths In The Developed World

May 12, 2017 - 10:28 AM ET

NINA MARTIN, PROPUBLICA

RENEE MONTAGNE

Rank 34 out of 35 high-income countries

Source: Lancet Global Burden of Disease, 2017

America stands alone: Infant mortality



The New York Times

TheUpshot













THE NEW HEALTH CARE

The U.S. Is Failing in Infant Mortality, Starting at One Month Old

By Aaron E. Carroll

June 6, 2016

Many more babies die in the United States than you might think. In 2014, more than 23,000 infants died in their first year of life, or about six for every 1,000 born. According to the Centers for Disease Control and

Why the United States is 'the most dangerous of wealthy nations for a child to be born into'



Rank 33 out of 35 high-income countries

Source: America's Health Rankings 2017 Report

America stands alone: Preterm birth





HEALTH

U.S. Lags in Global Measure of Premature Births

000

Rank 34 out of 34 high-income countries

Source: Delnord, et al, 2017; Euro J Public Health

Geography

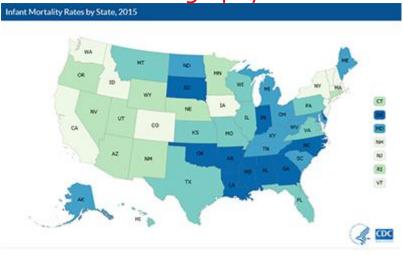
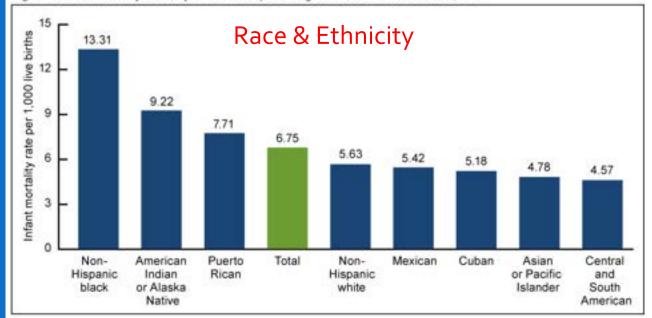
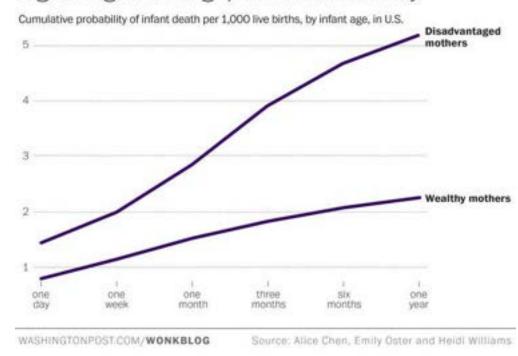


Figure 1. Infant mortality rates, by race and Hispanic origin of mother: United States, 2007



Dimensions of Equity

Socioeconomic Status A growing income gap in infant mortality

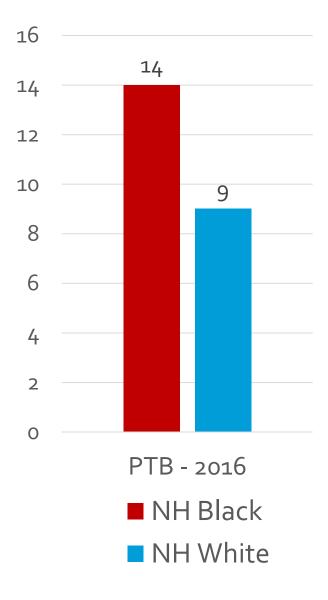


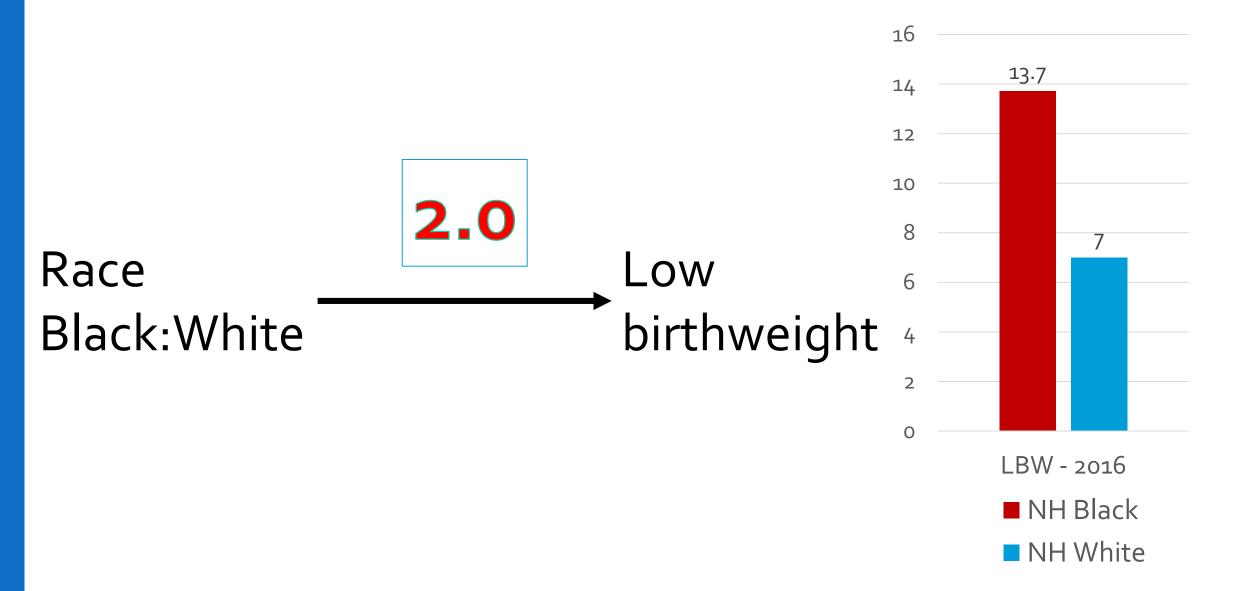
SOURCE: CDC/NCHS, linked birth/infant death data set, 2007.

Death Rates'

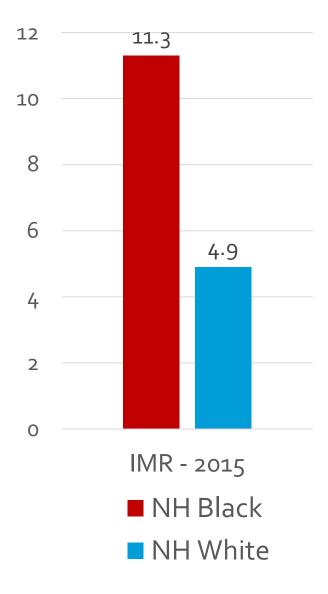
Race
Black:White

Preterm
Birth



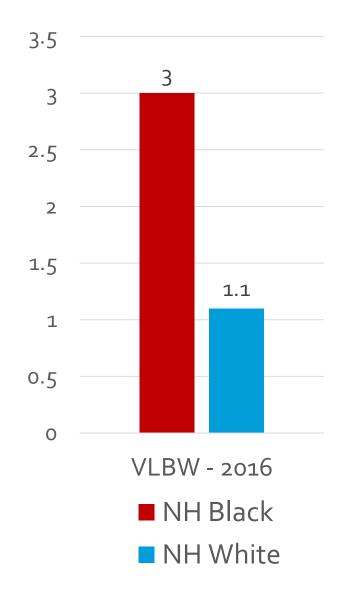


Race Infant Mortality

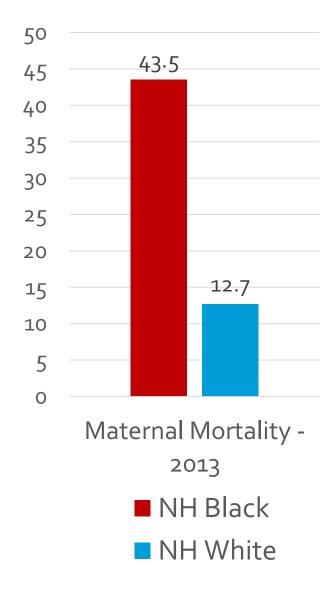


Race Black:White Very
Low birth
weight

2.8

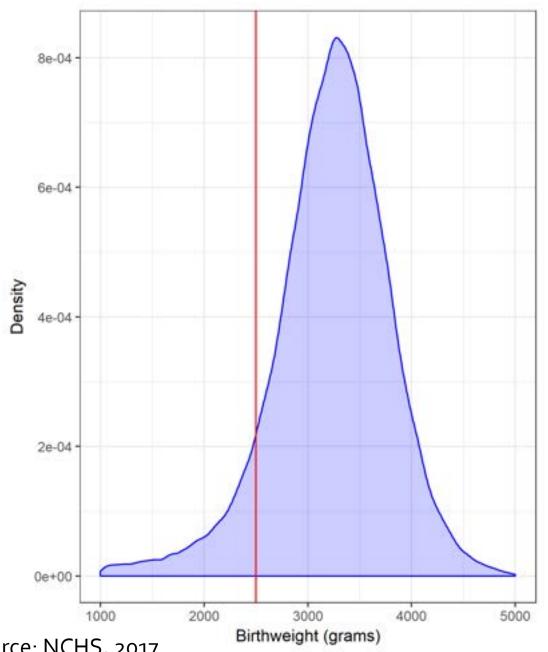


Race Black:White Maternal Mortality



APPROACHING EQUITY 1:

Individual differences do not explain group disparities

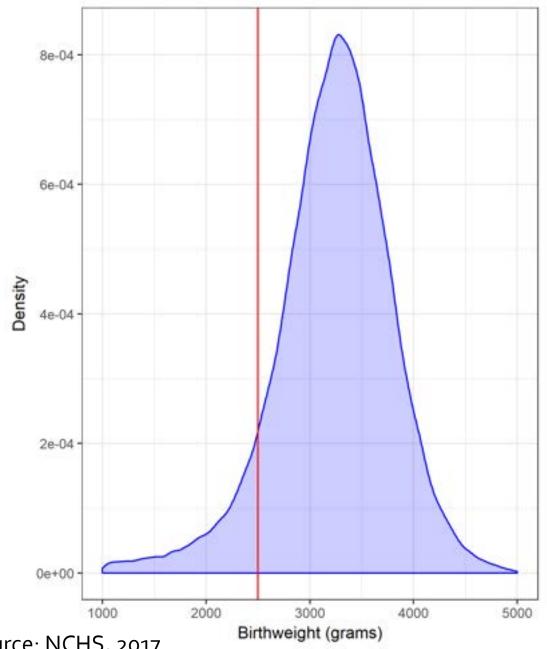


What differs between individual babies?

Causes of Cases Why was *this* baby low birthweight?

Source: NCHS, 2017

Rose, 2001



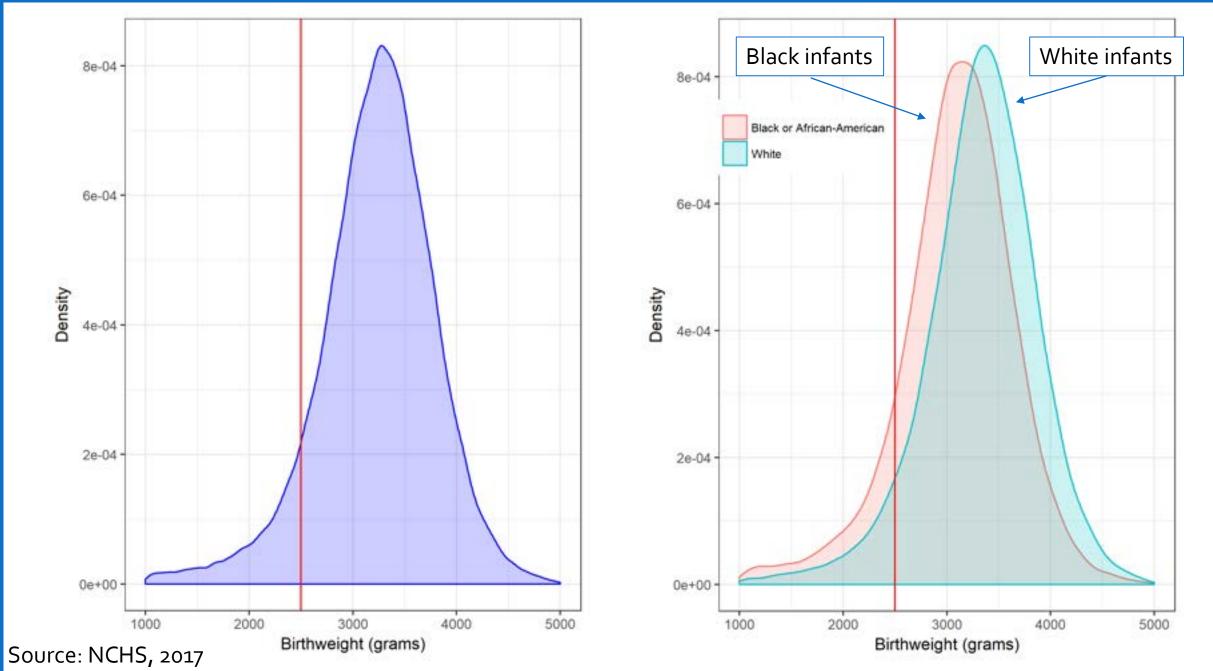
What differs between individual babies?

- Infection
- Stress
- Smoking
- Genetics
- Race?

Causes of Cases Why was *this* baby low birthweight?

Source: NCHS, 2017

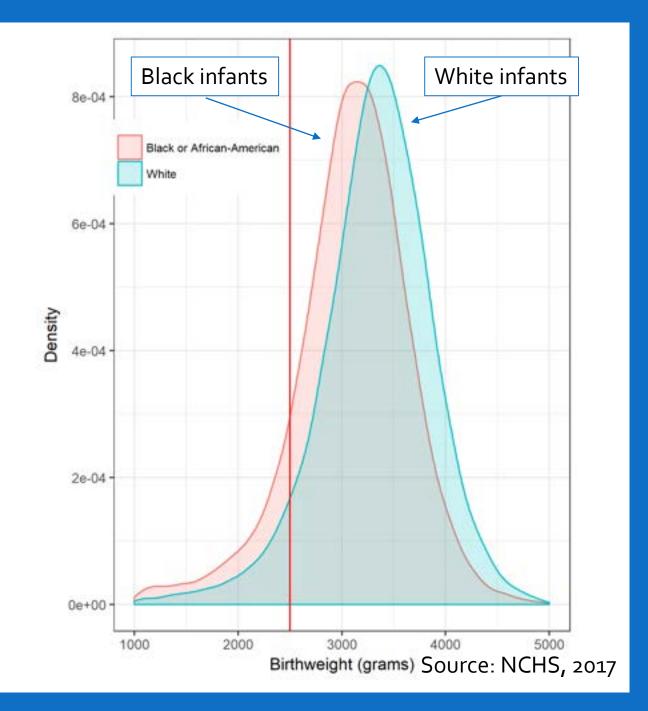
Rose, 2001



Rose, 2001

What differs <u>between</u> populations?

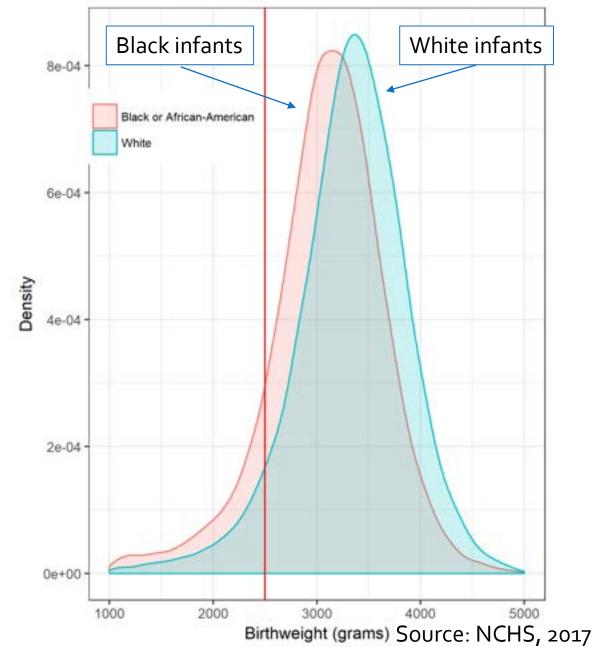
Causes of Incidence
Why is the <u>average birthweight</u> lower for
Black compared to White babies?

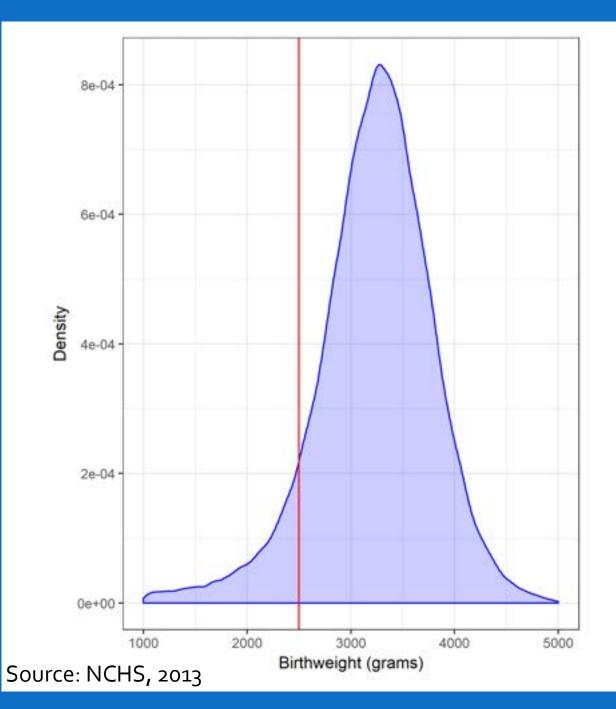


What differs between populations?

- Race? Racism
- Stigma & Discrimination
- Segregation
- Opportunity structures
- Health access & health care

Causes of Incidence Why is the **average birthweight** lower for Black compared to White babies?





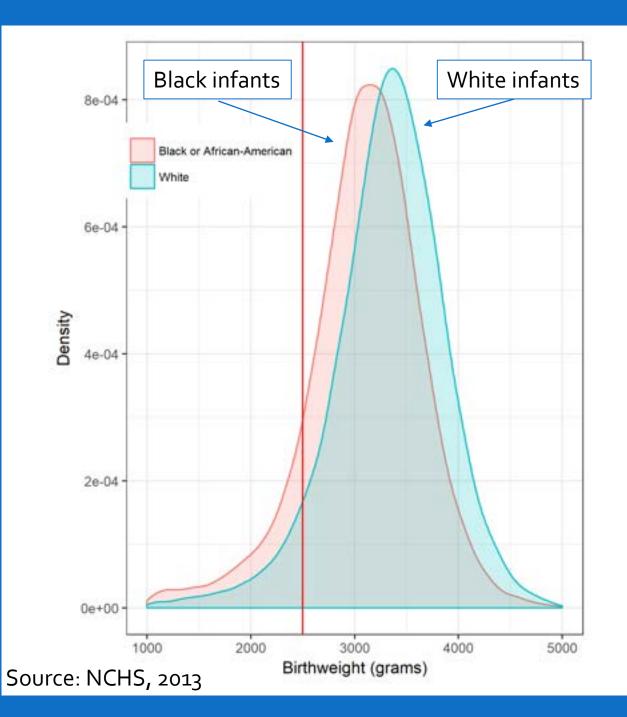
Are individuals accountable for their health outcomes?

Health behaviors and conditions matter for individual outcomes

BUT...

Individual factors <u>do not explain</u> betweenrace differences in...

- Maternal mortality
- Infant mortality
- Preterm birth



Is 'health care' accountable for health inequity?

Racial inequities in 'health care':

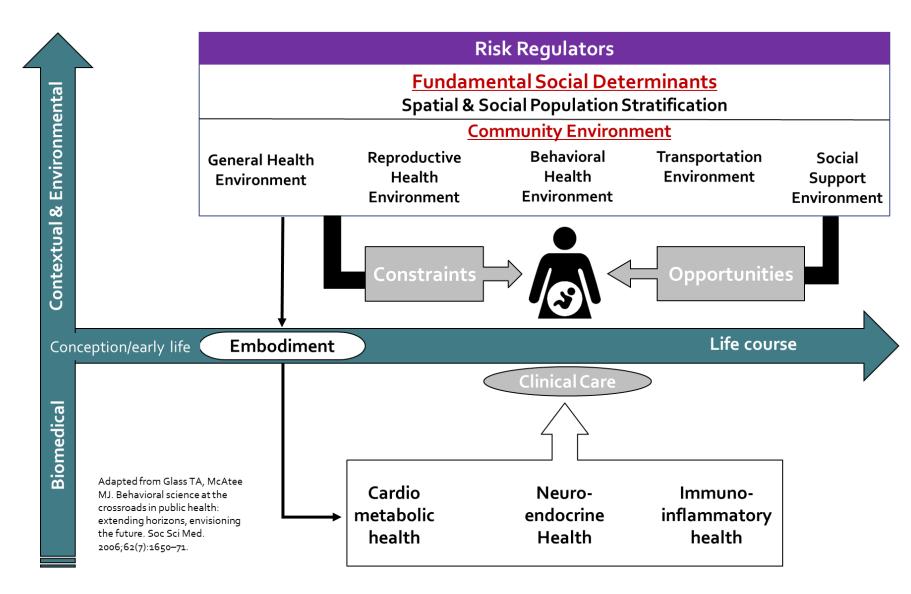
- Insurance
- Access to providers
- Timing, quality, quantity of care

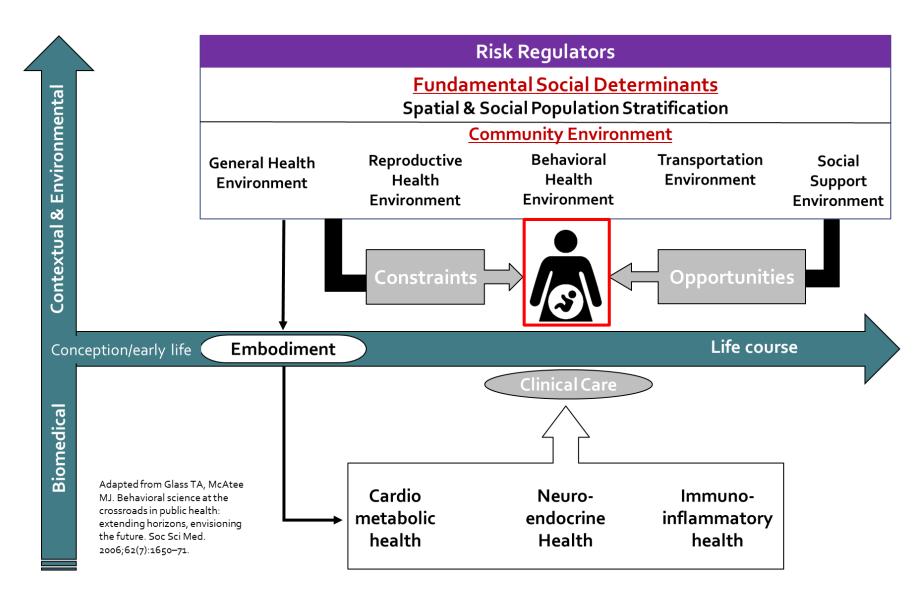
BUT...

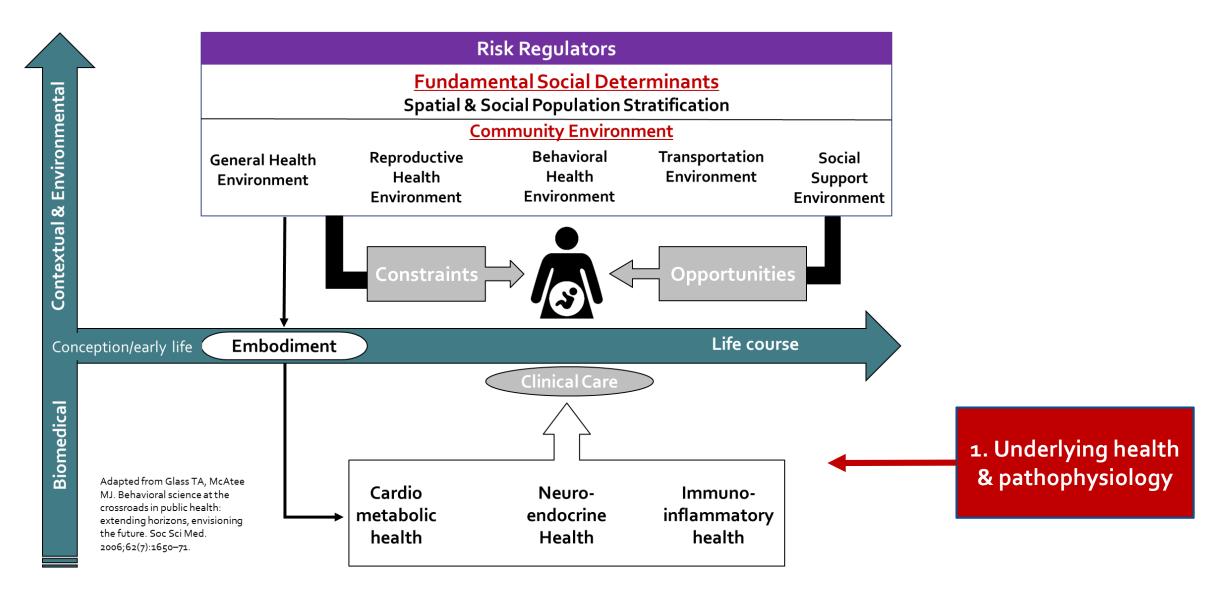
Between-race differences persist among women with private insurance

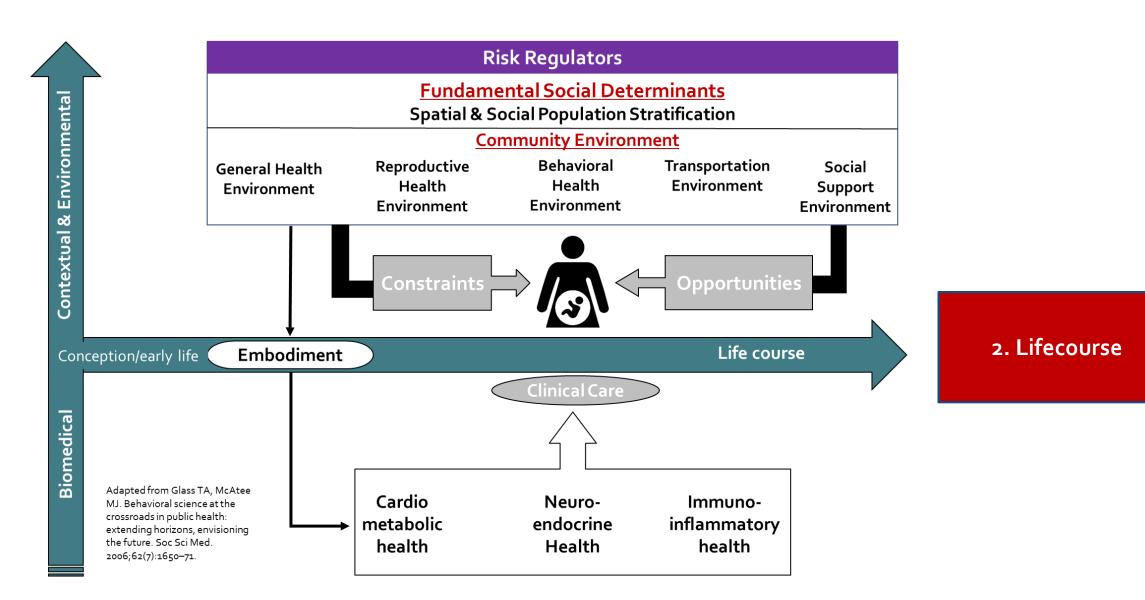
APPROACHING EQUITY 2:

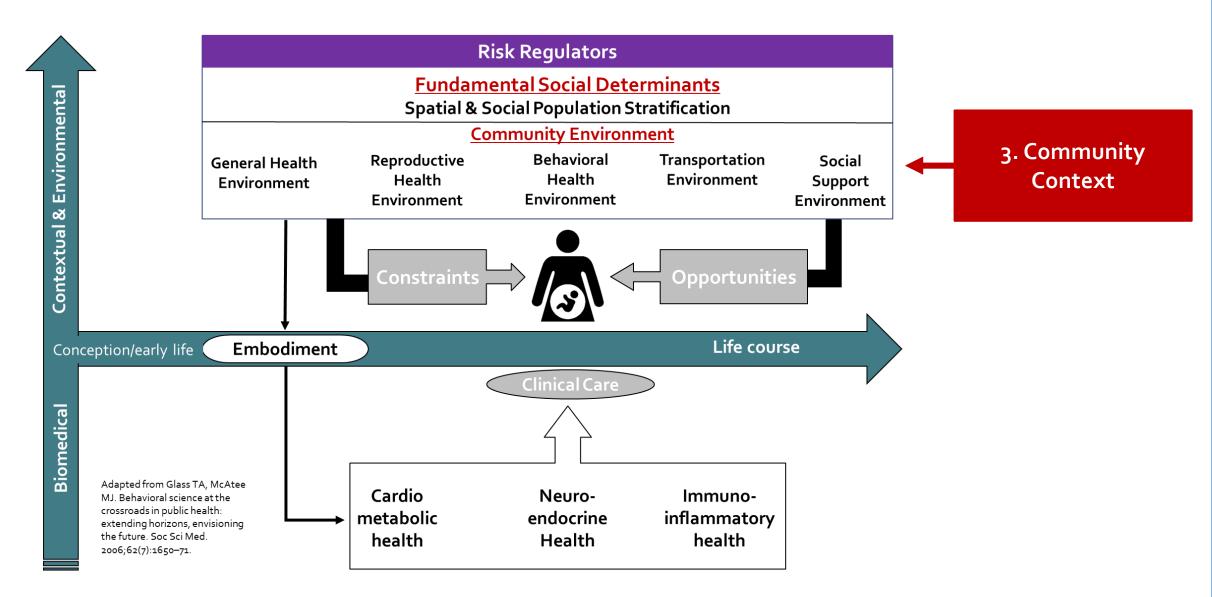
Health is caused at multiple levels

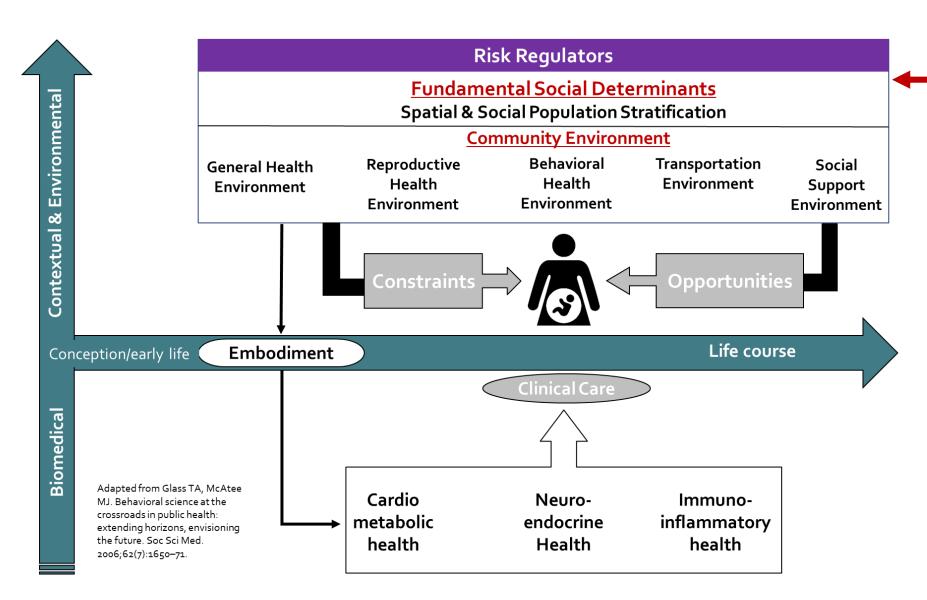












4. Fundamental Social Determinants

Maternal Mortality Review Committee

- 1. Was the death pregnancy related?
- 2. What was the cause of death?
- 3. Was the death preventable?
- 4. What were the factors contributing to this death?
- 5. What are the recommendations to address contributing factors?
- 6. What is the anticipated impact of those actions if implemented?

Maternal Mortality Review Committee

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Changing the conversation: Building a *Health Equity Toolkit*

What causes inequity?

Geographic Domains

Local Indicators

Policy and program action

Conceptual Model

Provide Data

Link to action

Changing the conversation: Building a *Health Equity Toolkit*

Geographic Local **Indicators Domains Provide Data** Conceptual Model Link to action

General Health Service Environment

PCPs per 100,000

% uninsured

% Medicaid eligible

Obesity prevalence

% poor/fair health

Reproductive Health Service Environment

OB-GYNs per 100,000

CNMs per 100,000

Unmet family planning need

% LBW

Infant mortality rate

Behavioral Health Service Environment

Mental health provider per 100,000

Unmet substance use treatment need

Prevalence poor mental health days

Prevalence suicidal ideation

Opioid prescription rate

Drug overdose death rate

Transportation Environment

% households with no car

% access to public transit

% with long commute

Rural/urban status

Socio Economic Environment

Poverty

Social capital

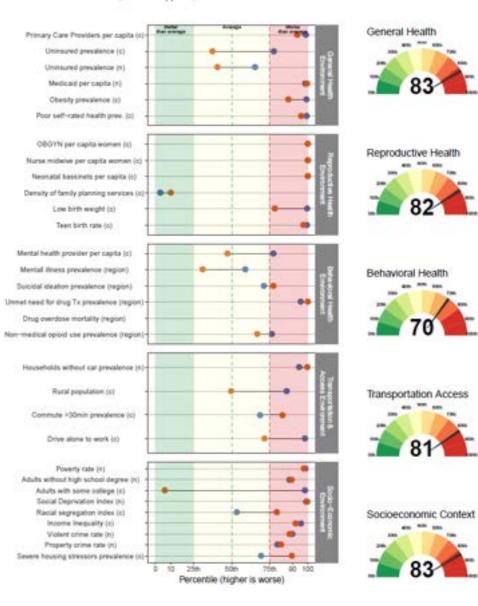
Food insecurity

Violent crime rate

Unstable housing

Racial & economic segregation

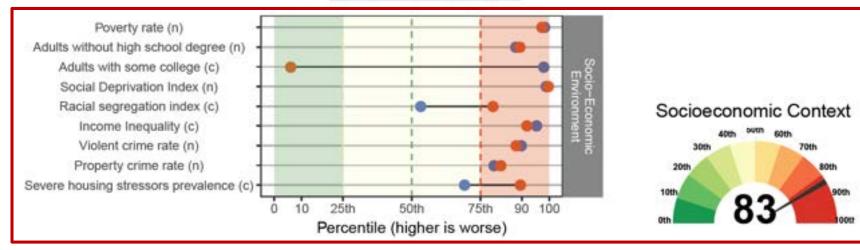
37b0d0b5-8756-46f8-0bd3-9106e85f4910 Mississippi National



Community Vital Signs Dashboard

Compare <u>this</u>
<u>woman</u> to <u>other</u>
<u>women</u> in
Mississippi or
Nation





Changing the conversation: Building a *Health Equity Toolkit*

What causes inequity?

Geographic Domains

Local Indicators Policy and program action

Link to action

Conceptual Model

Provide Data

Community factors need community solutions

Domain	Strategy	Description
Access to care	Community health workers	Engage lay health workers to provide education, referral, home visiting
Access to care	Magnolia Project	Provide prenatal and interconception care, case management via Healthy Start
Alcohol & Drug Use	Drug Courts	Use specialized courts for alternative to incarceration for substance users
Community safety	Cure Violence Health model	Detect and intervene in violent situations, mobilize communities and connect high risk individuals to services

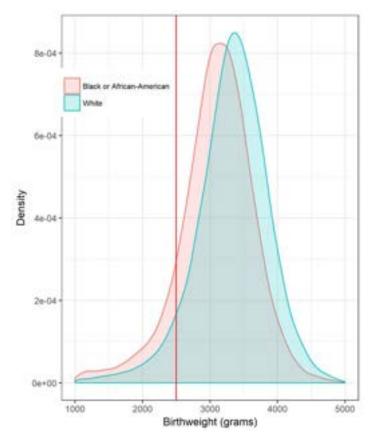
https://www.countyhealthrankings.org/take-action-to-improve-health/what-works-for-health

Community factors need community solutions

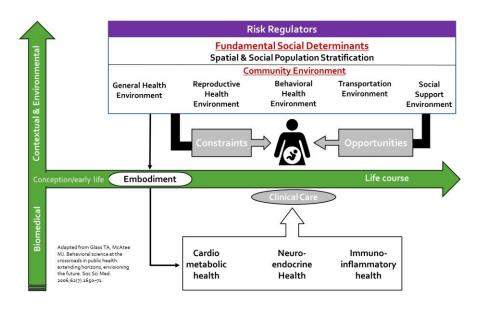
Domain	Strategy	Description
Housing & Transit	Social service integration	Coordinate access to services across delivery systems (e.g. housing, health, child welfare)
Income	Child care subsidies	Provide financial assistant to working parent looking for jobs or seeking health care
Quality of Care	Trauma-informed health care	Shift the way health care organizations approach trauma
Family & Social Support	Mental Health First Aid	Provide 8-12 hour training to educate laypeople and first responders about how to assist individuals in mental health crisis

https://www.countyhealthrankings.org/take-action-to-improve-health/what-works-for-health

1. Thinking about equity is different...

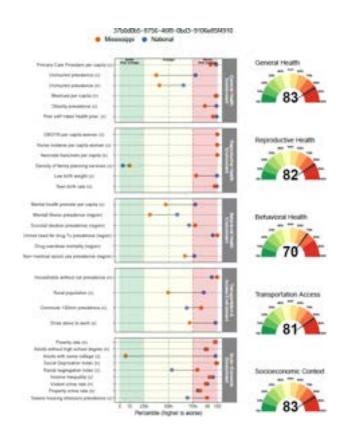


Causes of disparities are not <u>individual</u> but instead environmental



Maternal outcomes are shaped across time and across levels

2. Action to achieve equity must be different





Examine data about context and community

Build the policy toolkit for outside as well as inside the healthcare system

Other resources

- Wang E, Glazer KB, Howell EA, Janevic TM. Social Determinants of Pregnancy-Related Mortality and Morbidity in the United States: A Systematic Review. Obstet Gynecol. 2020;00(00):1–20.
- Kramer MR, Strahan AE, Preslar J, Zaharatos J, St Pierre A, Grant JE, et al.
 Changing the conversation: applying a health equity framework to maternal mortality reviews. Am J Obstet Gynecol. 2019 Dec;221(6):609.e1-609.e9.
- Howell EA, Zeitlin J. Improving hospital quality to reduce disparities in severe maternal morbidity and mortality. Semin Perinatol. 2017;1—7.
- Jones CP. Levels of racism: a theoretic framework and a gardener's tale. Am J Public Health. 2000;90(8):1212-5.

QUESTIONS?

mkramo2@emory.edu

PROMOTING A HEALTH EQUITY APPROACH TO MATERNAL HEALTH:

THE IMPACT OF RACISM AS A CHRONIC STRESSORS AMONG AFRICAN AMERICANS

Dr. Sierra Carter

Georgia State University

Assistant Professor of Clinical and Community Psychology

Email: scarter66@gsu.edu



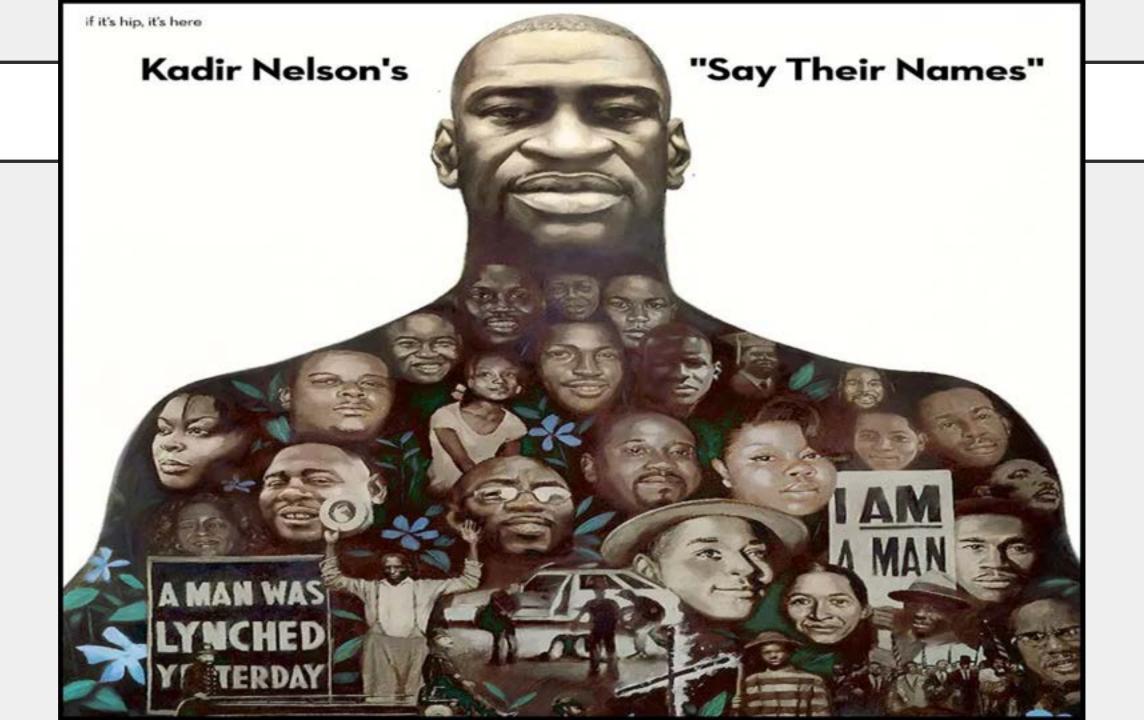




OVERVIEW

- 1. Brief Background (Definitions & Findings)
- 2. Effects of Racism as a Chronic Stressors on Health for African American Women
 - Intergenerational effects
- 3. Informing Multilevel Interventions
- 4. Take Home Points



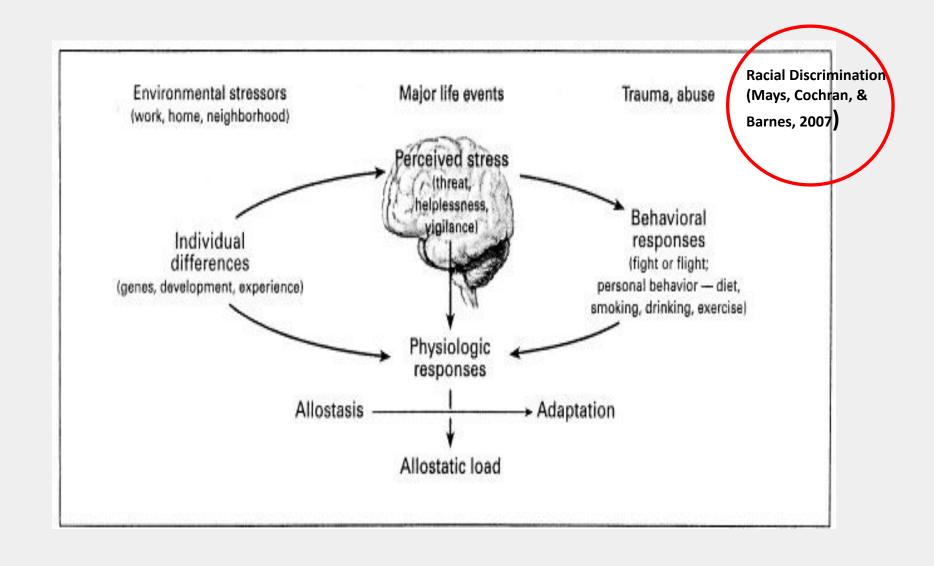


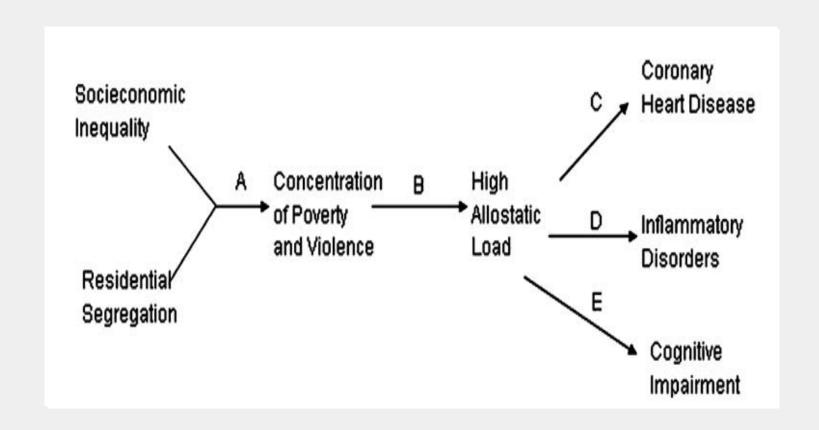
BACKGROUND: RACISM AND RACIAL DISCRIMINATION

- Racial discrimination: The unjust or prejudicial treatment of different categories
 of people on the grounds of race
 - *At least 90% of Black adults and youth as young as 8 report experiencing at least I incident of racial discrimination in the last year
- **Structural racism**: the societal systems, social forces, institutions, and ideologies that perpetuate racial inequities
- Discrimination types and experiences can differ
 - In-vivo and vicarious
 - Racial Trauma or Race-based trauma
 - Objective and subjective
 - Interpersonal and institutional

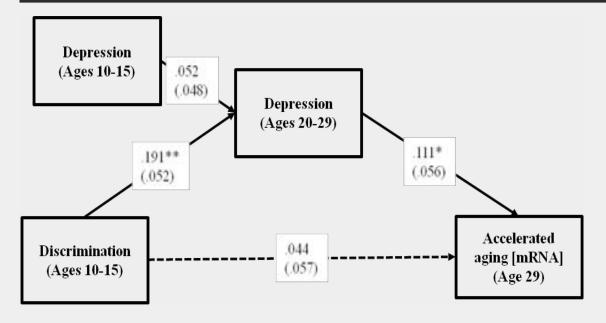


MCEWEN'S (1998) MODEL OF STRESS RESPONSE



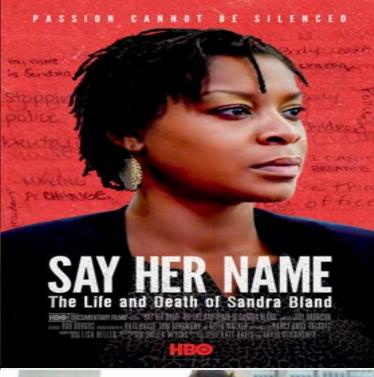


THE EFFECT OF EARLY DISCRIMINATION ON ACCELERATED AGING AMONG AFRICAN AMERICANS



- **Figure 1.** Effects of early racial discrimination (ages 10 15) on accelerated aging (age 29) mediated through young adult depression (ages 20-29). Not shown, effects of sex, healthful diet, exercise, alcohol consumption, and sleep quality are controlled in these analyses. The indirect effect is significant $\beta = .021[.001, .057]$
- ** $p \le .01$; * $p \le .05$ (two-tailed tests), n = 368.













INTERGENERATIONAL IMPACT OF RACISM ON HEALTH

- Descendants of survivors of mass and targeted trauma experience grief and other mental, behavioral, and somatic symptoms akin to what might be expected if the trauma was witnessed directly (Heart & DeBruyn, 1998).
 - Long-term adverse health impacts linked to structural and institutional racism (i.e., Jim Crow laws (Krieger et al., 2014)
- Studies of children of Holocaust survivors and multiple generations of Native Americans suggest a link between these racialized traumatic experiences and the well-being of future generations
 - Biological Embedding: How racism "gets under the skin" for generations
 - Limited research on the impact of slavery on current generations of Black people

INTERGENERATIONAL IMPACT OF RACISM: POSTTRAUMATIC SLAVE SYNDROME

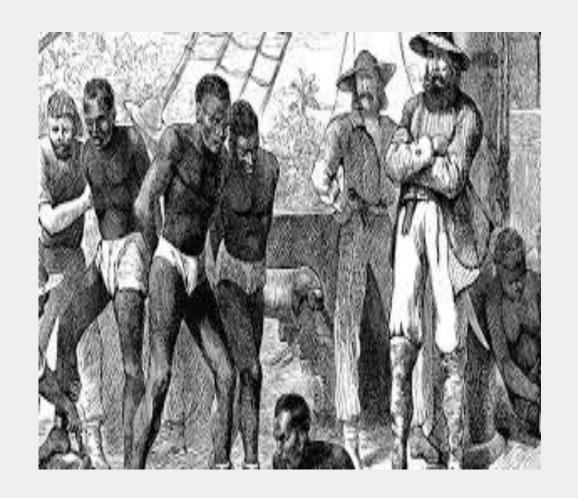
The traumatic effects of enslavement were transferred to successive generations (Crawford, Nobles, & DeGruy, 2003; DeGruy, 2017)

The effects of environmental challenges faced by a parent may be displayed by offspring despite the children not encountering the same challenges



INTERGENERATIONAL IMPACT OF RACISM: POSTTRAUMATIC SLAVE SYNDROME

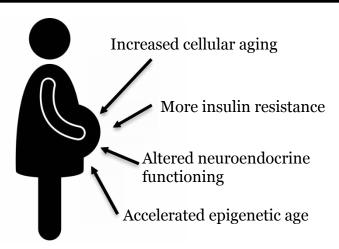
- DeGruy (2017) argued that decreased self-esteem, ever present anger, and racist socialization are the psychological markers for posttraumatic stress syndrome and explain intergenerational family discord and the numerous disparities in health outcomes.
- Example: "I have to work twice as hard"





Maternal Health and Racism Pandemic for Black Americans

- The primary antecedent of infant mortality is low birthweight
- Unlike some other health disparities, education and income is not necessarily the primary factor influencing poor trajectories in maternal health
 - o Babies born to college-educated Black women are still more likely to have a lower birth weight than babies born to White women who dropped out of high school (Mathews and MacDorman, 2006)
- Pregnant women from marginalized communities are at high risk for problematic birth outcomes and maternal mortality due to historical trauma, exposure to racism and discrimination, which likely persists for generations (Conching & Thayer, 2019; Green & Darity, 2010; Lehrner & Yehuda, 2018)







Individual Level Factors

- Racial discrimination, prejudice, and stigma experienced by the mother
- · Racial trauma
- Racial profiling

Community Level Factors

- Exposure to hate crimes
- Exposure to racially-motivated violence

Structural Level Factors

- Structural racism
- Historical trauma
- Segregation
- Neighborhood deprivation and housing instability
- Exposure to pollutants
- Poor quality education
- Poverty
- Access to health care

- Discriminatory hospital practices
- Access to health care

*Intergenerational Effects of Racism

- Increased risk for maternal mortality
- Increased risk for poor birth outcomes such as preterm birth and low birth rate
- Altered physiological responses to stress in infants
 - Lower heart rate variability
 - Greater cortisol reactivity

Conradt, Carter, & Crowell, 2020



PROMOTING HEALTH EQUITY AND CULTURALLY-COMPETENT/ HISTORICALLY CONSCIOUS TREATMENT FOR RACISM-RELATED STRESS



THE CHECKUP

The Impact of Racism on Children's Health

A new statement from the American Academy of Pediatrics looks at the effects of racism on children's development, starting in the womb.

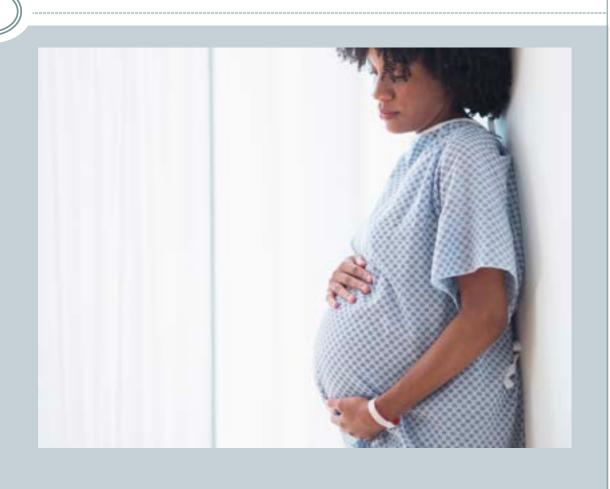
By Perri Klass, M.D.

Aug. 12, 2019



Considerations for Research, Intervention, and Prevention

- Further understanding of the biological mechanisms implicated in prenatal health disparities
- Bi-directional manner of chronic stressors?
 - Children's experiences of discrimination can impact maternal physical health outcomes in women of reproductive age (Colen et al., 2019).



Considerations for Research, Intervention, and Prevention

Quality of care

- Quality of care for preterm infants in Neonatal Intensive Care Unites (NICUs) differs depending on race and ethnicity (Beck et al., 2020)
- Increase in examination and trainings related to bias and prejudice within medical settings
- Acknowledgment of racial discrimination as a potentially potent chronic stressor for pregnant women in medical settings



What Serena Williams's scary childbirth story says about medical treatment of black women

Black women are often dismissed or ignored by medical care providers. Williams wasn't an exception.

By P.R. Lockhart | Jan 11, 2018, 4:40pm EST

Racial disparities in AA childbirth complications/preterm births and socioeconomic status



The Multiple Layers of Racism

- "I have never felt more incompetent than when I was pregnant."
- "He glared at me and said that if I wasn't quiet he would leave and I would not get any pain relief."- Dr. Tressie McMillan Cottom "THICK"





Dismay, Anger Over Grand Jury's Breonna Taylor Verdict Spills Into America's Streets





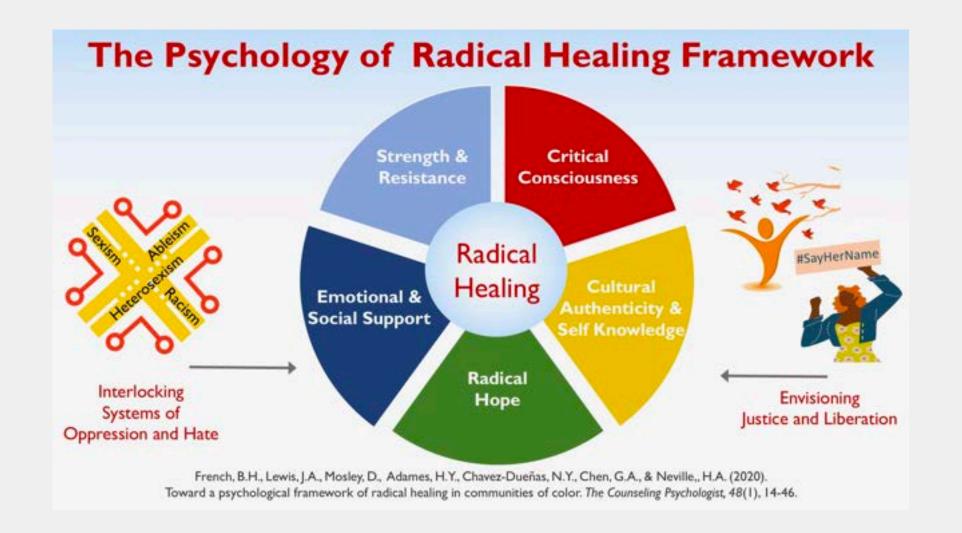
CONSIDERATIONS FOR TREATMENT OF RACISM-RELATED STRESS

- Interventions that consider the multiple layers of racisms that could prevent mental and physical health decline
 - Radical healing in African American communities that utilize collectivism, activism, as well as strength and resilience (Grills, Aird, & Rowe, 2016)



- Healthcare providers/practitioners as important advocates for social justice (Quiros, Varghese, & Vanidestine, 2020)
 - Examination of systems that are perpetuating racial injustice
 - Potential for communities to engage in collective healing outside of current healthcare settings





TAKE HOME POINTS

- Acknowledging that racism is a chronic stressful stimuli that is having a significant impact on health in our treatment settings is vital
 - Learn the history of racism in our society
- If we understand the history of racial injustice that influences current practices we can consider more racially equitable clinical solutions to address racism among African Americans
- Given our current socio-political climate and US legacy, it is important to think about novel ways to engage communities around therapeutic interventions for racism-related stress



Thank you! Questions?

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