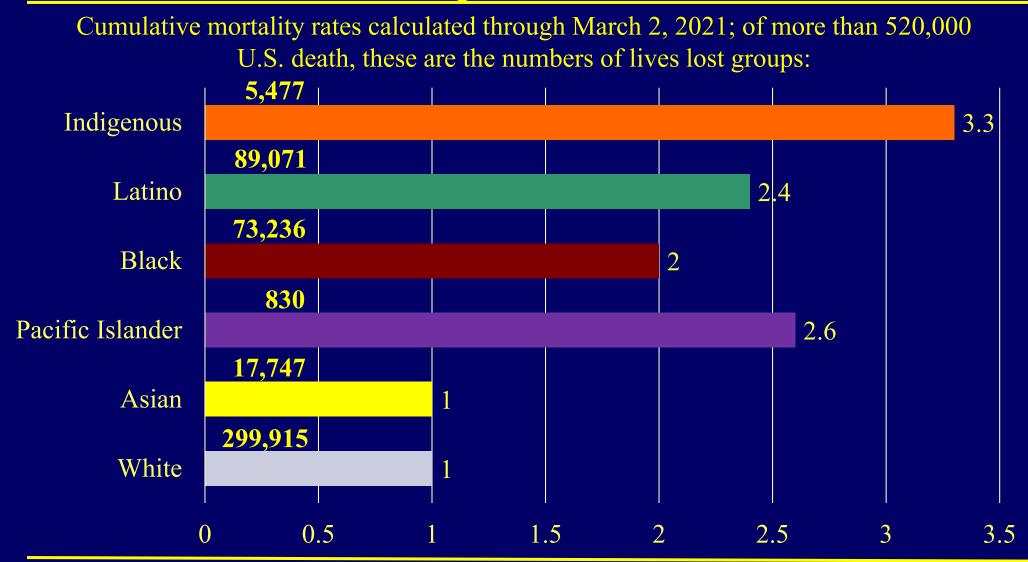
Understanding and Effectively Addressing Health Equity

David R. Williams, PhD, MPH

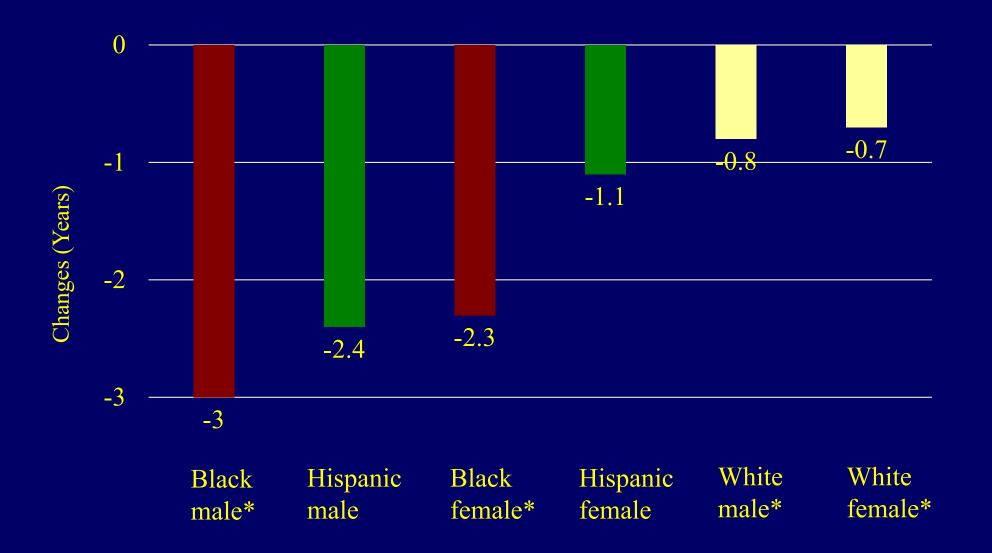
Florence & Laura Norman Professor of Public Health Chair, Department of Social and Behavioral Sciences Professor of African & African American Studies and of Sociology Harvard University

More Likely to Die of Covid-19 Compared to Whites



APM Research Lab, http://www.apmresearchlab.org/covid/deaths-by-race

Decline: Life Expectancy at Birth, 2019-2020

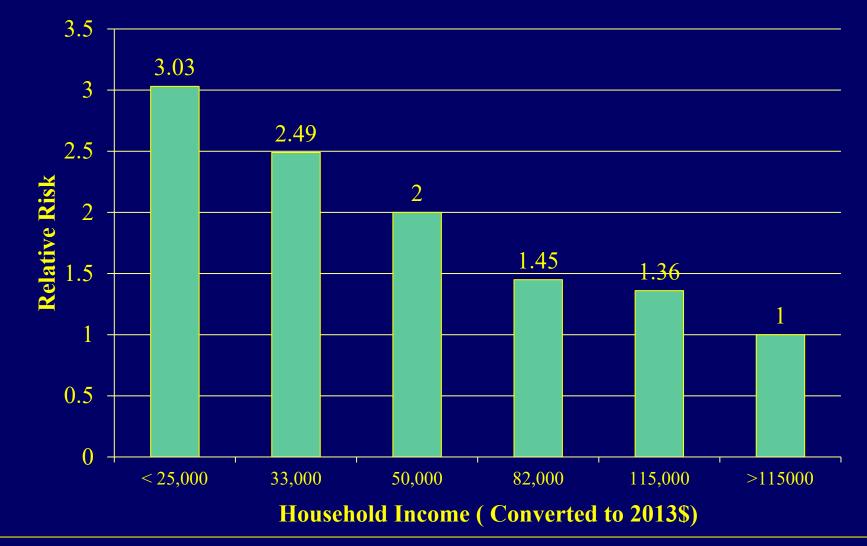


NCHS, National Vital Statistics System, 2021 *Non-Hispanic

What Drives these Large Racial Inequities in Health?

There are large Inequities in Health by Socioeconomic Status (SES) in the U.S. and elsewhere

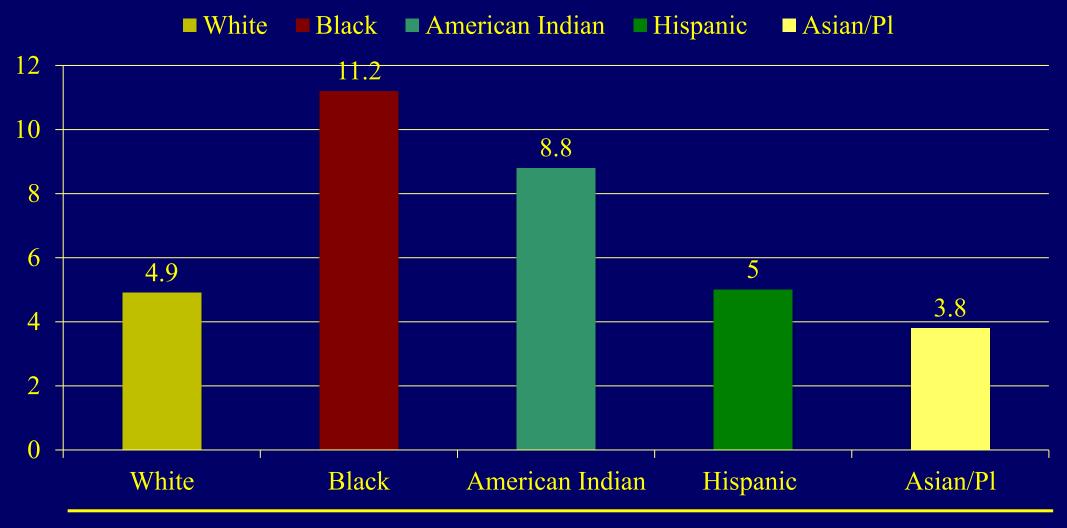
Relative Risks of All-Cause Mortality by Household Income Level: U.S. Panel Study of Income Dynamics



P. McDonough, Duncan, Williams, & House, AJPH, 1997

There are Large Racial/Ethnic Differences in Socioeconomic Status

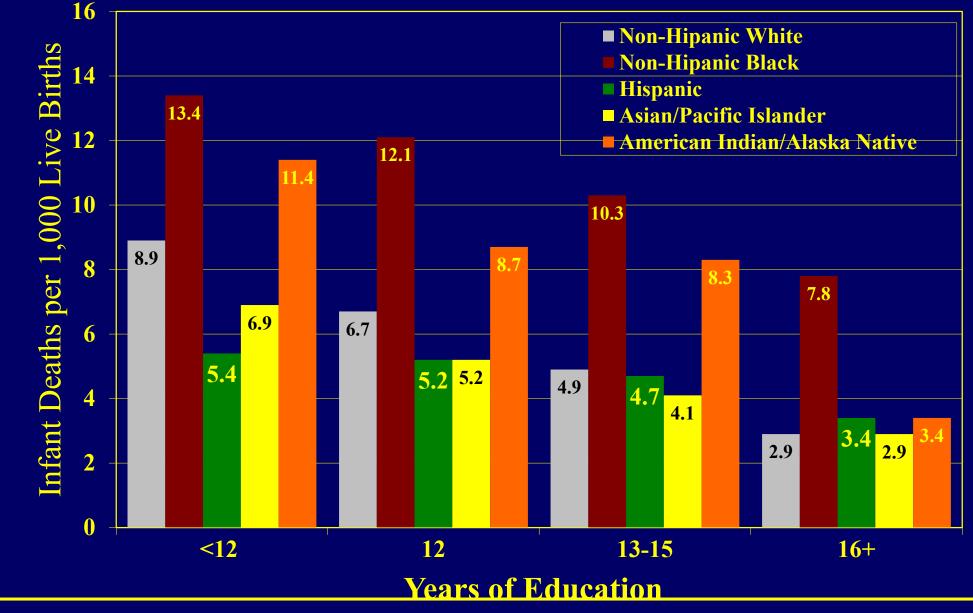
Infant Mortality in the U.S., 2016



Health United States, NCHS, 2018

There is an added burden of Race, even after we take SES into account

Infant Mortality by Mother's Education, 2016



Singh & Yu, Int J MCH & AIDS, 2019

Why Does Race Still Matter?

Could racism be a critical missing piece of the puzzle to understand the patterning of racial disparities in health?

The House that Racism Built



Cultural Racism Racism as a societal system **Social Forces** Political •Legal •Economic •Religious •Cultural •Historical **Events**

(e.g. Stereotypes, Stigma, Implicit & Explicit biases Institutional or **Structural Racism** (e.g. Segregation)

> Individual Discrimination

Williams, Lawrence, Davis, Vu, 'Understanding how Discrimination Can Affect Health,' HSR, 2019

Institutional/Structural/Systemic Discrimination

Discrimination embedded in laws and macro-level policies (past and present), can have enduring consequences for access to societal opportunities and resources

How Segregation Works

Segregation is like a burglar at mid-night. It slips into the community, awakens no one, but once it shows up, valuables disappear:

- Quality Schools
- Safe playgrounds
- Good jobs
- Healthy environment
- Safe housing
- Transportation
- Healthcare



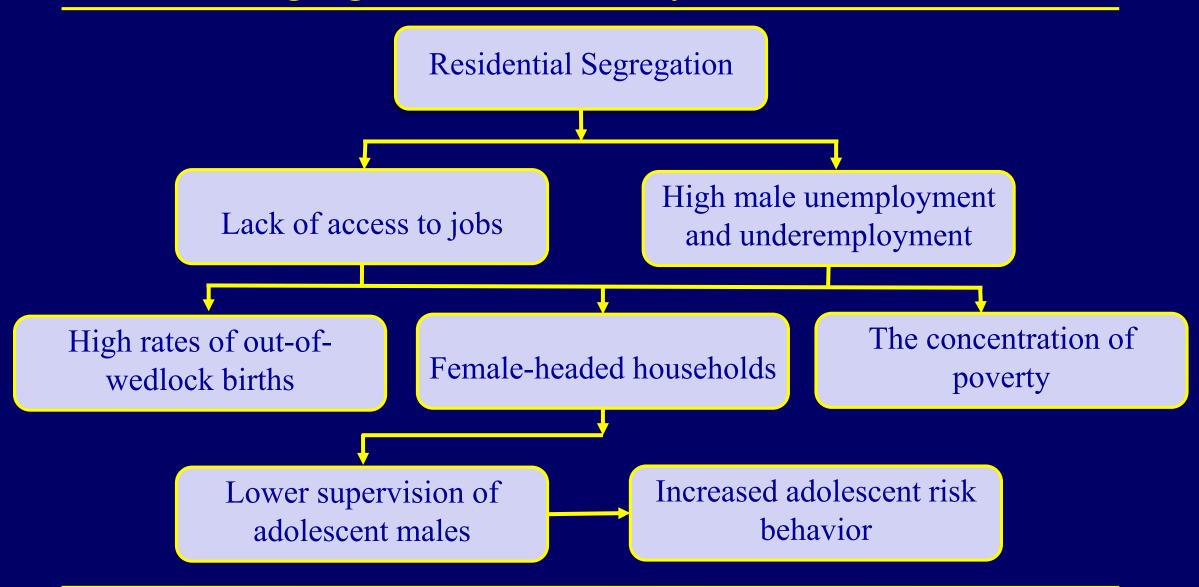
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Determinants of Family Structure

- Economic marginalization of males (high unemployment & low wage rates) is a central determinant of high rates of female-headed households.
- Marriage rates are positively related to average male earnings.
- Marriage rates are inversely related to male unemployment



Segregation and Family Structure - 1



Sampson, American Journal of Sociology, 1987

Segregation and Family Structure - 2

- Association between male unemployment, poverty and family structure with adolescent risk behavior (violence, homicide) is identical in sign and magnitude for Blacks and Whites in the U.S.
- Racial differences in adolescent risk behavior driven by racial inequities at the neighborhood level in availability of jobs, concentrated poverty, opportunities for marriage and family structure

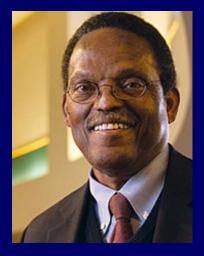


Unsplash.com

Sampson, American Journal of Sociology, 1987

Racial Differences in Residential Environment

In the 171 largest cities in the U.S., "the sources of violent crime...are remarkably invariant across race and rooted instead in the structural differences among communities, cities, and states in economic and family organization,"p. 41





The Military & Economic Well-Being?

- Black men in the military earn more than civilian peers
- The command and control, bureaucratic structure of the military has created a more race-blind environment than larger society
- Military benefits include family housing, day care centers, school-age activity centers



Teachman 2007; Teachman and Tedrow 2008; Teachman 2009

Unsplash.com

Learning from the Military

Active duty military service:

- 1. Promotes marriage over cohabitation
- 2. Increased the likelihood of 1st marriage
- 3. Leads to greater stability of marriage
- Effects greater for blacks than for whites
- Economic opportunities & resources can eliminate disparities in marriage



Teachman 2007; Teachman and Tedrow 2008; Teachman 2009 pixabay

Segregation, SES, Stress and Health Lower economic status, living in disadvantaged, segregated, neighborhoods leads to to higher levels of exposure to and greater clustering of adversity:

1. Economic Stressors 2. Psychosocial Stressors 3. Physical & Chemical Stressors and There is also the stress of interpersonal discrimination



Williams, J Health and Social Behavior, 2016

Individual Discrimination

Experiences of discrimination are an added source of Toxic Stress

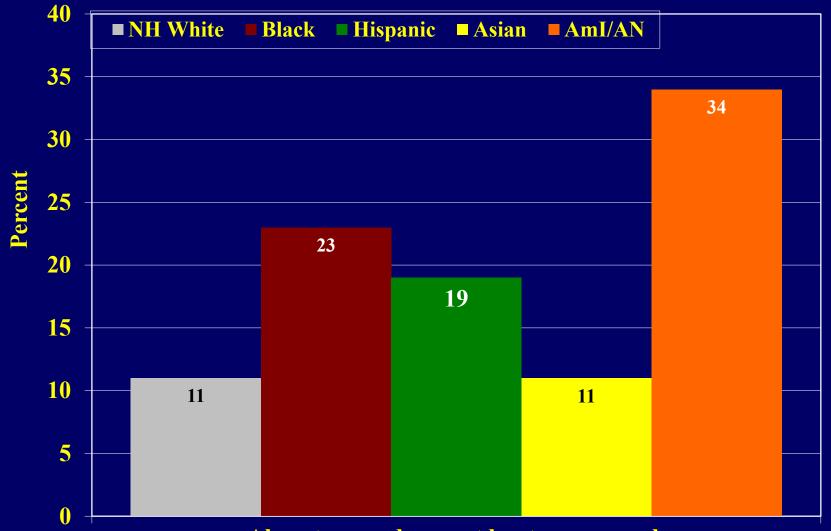
Every Day Discrimination

In your day-to-day life how often do these happen to you?

- You are treated with less courtesy than other people.
- You are treated with less respect than other people.
- You receive poorer service than other people at restaurants or stores.
- People act as if they think you are not smart.
- People act as if they are afraid of you.
- People act as if they think you are dishonest.
- People act as if they're better than you are.
- You are called names or insulted.
- You are threatened or harassed.

What do you think was the <u>main</u> reason for these experiences?

Everyday Discrimination, 2015



Almost every day or at least once a week

American Psychological Association, Stress in America, 2016



Discrimination & Health: Tene Lewis

- Everyday Discrimination: positively associated with:
 - -- coronary artery calcification (Lewis et al., Psy Med, 2006)
 - -- C-reactive protein (Lewis et al., Brain Beh Immunity, 2010)
 - -- blood pressure (Lewis et al., J Gerontology: Bio Sci & Med Sci 2009)
 - -- lower birth weight (Earnshaw et al., Ann Beh Med, 2013)
 - -- cognitive impairment (Barnes et al., 2012)
 - -- poor sleep [object. & subject.] (Lewis et al, Hlth Psy, 2012)
 - -- mortality (Barnes et al., J Gerontology: Bio Sci & Med Sci, 2008).
 - -- visceral fat (Lewis et al., Am J Epidemiology, 2011)

Concept of Microaggressions



Prof Chester M. Pierce

"What the reader must bear in mind is that these assaults to black dignity and black hope are incessant and cumulative. Any single one may not be gross. In fact, the major vehicle for racism in this country is offenses done to blacks by whites in this sort of gratuitous, never-ending way. These offenses are microaggressions."

26

Pierce CM. Psychiatric problems of the black minority. In American Handbook of Psychiatry, Vol 2 edited by G Caplan; Basic Books 1974.)This paper references his earlier work (1970) on this topic

Asian Americans: Increasing Targets of Hate

3,795 incidents reported to the Stop AAPI Hate center, March, 2020 to Feb, 2021.

Hate incidents reported are a fraction of hate incidents that actually occur.

• Verbal harassment: 68%



- Physical assault: 11%
- Civil rights violations: 9% (at workplace, refusal of service, barred from transportation)
- Online harassment: 7%

Hidden Ways in which Stressors linked to Race and Racism Adversely affect Health

Online Discrimination and Mental Health

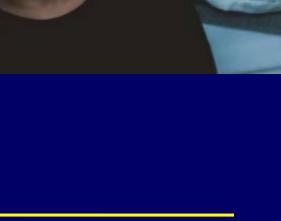
- Study of 264 youth, aged 14 to18
 Victimization in texts, chats, forums, online games, social network sites, etc
- After adjustment for age, gender, ethnicity, other adolescent stress, and offline discrimination
- Online individual discrimination was positively related to depression and anxiety symptoms



Tynes, Giang, Williams & Thompson, 2008; J Adolescent Health pixabay

Worry About Safety of Children

- Study of black women found that most live with a heavy burden of stress due to concern about the racism their children might experience
- Over 70% were "very concerned:"
 -- that their children might be harmed by the police
 - -- that their children might get stopped in
 - a predominantly white neighborhood



Police Stops and Mother's Health - 1

- A study of over 3,000 mothers in 20 cities (Fragile Families Study)
- 23% of urban youth are stopped by the police by the age of 15
- Mothers of youth who were stopped by the police are more than twice as likely to report both depression- and anxietyrelated sleep difficulties.



Unsplash.com

Police Stops and Mother's Health - 2

- Intrusive stops (frisked, bags/pockets searched) are especially strong predictors of maternal sleep problems.
- Male youth stops linked to mom's anxiety-related sleep problems.



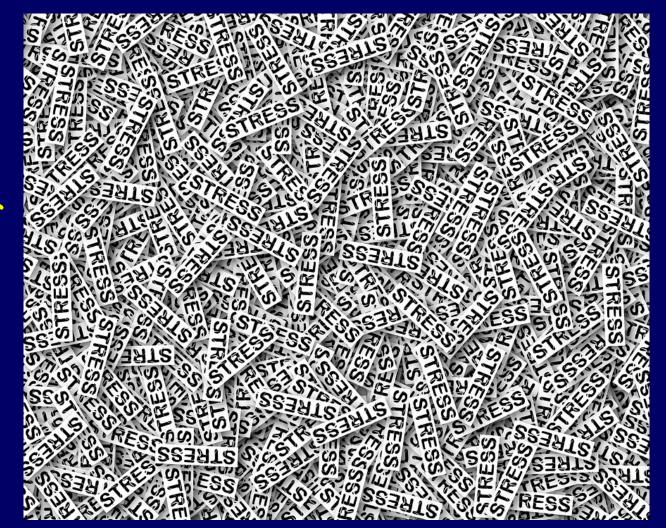
Unsplash.com

- Female youth stops linked to mom's depression-related sleep problems.
- Police contact can widen racial inequities in sleep and contribute to racial disparities in mental and physical health.

Dylan Jackson & Kristin Turney, Journal of Urban Health, 2021

Unprecedented Levels of Stress

Stressors linked to Covid-19 are an added burden of source of *stressful life experiences*



Covid-19 and Populations of Color

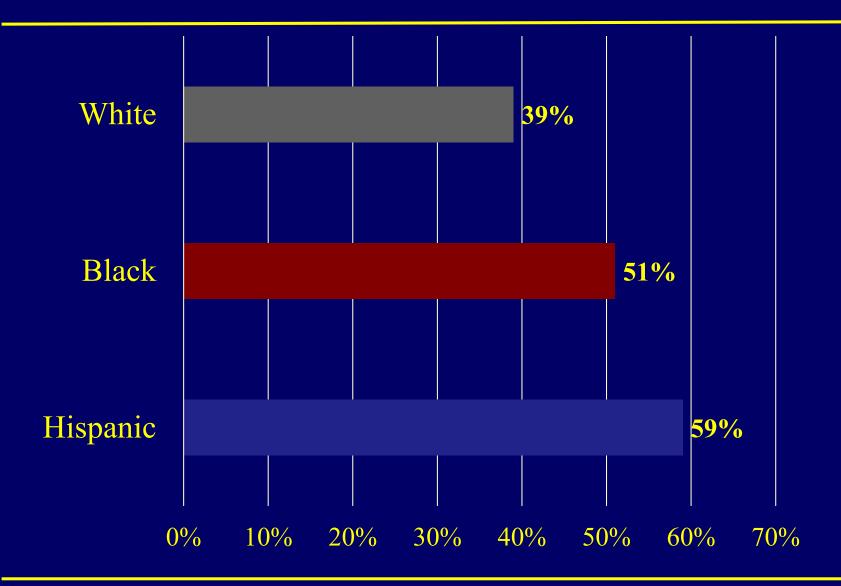
As a result, communities of color are thus likely to experience more trauma, leading to more emotional and physical symptoms such as anxiety, helplessness, nausea and headache, causing them to seek more stress-relief and soothing outlets



R.S. Sneed et al., Psychological Trauma, 2020, 12 (5), 446-448

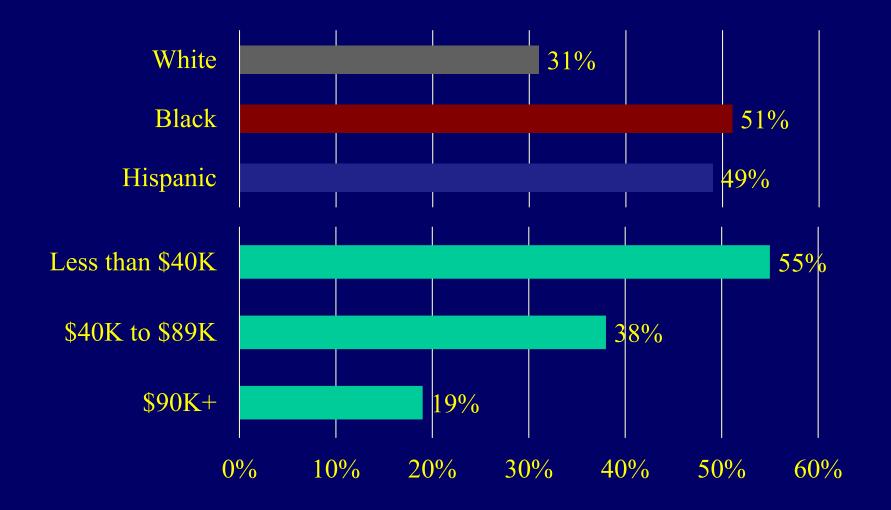
Covid-19 is also a major source of economic stress on the health of the most vulnerable

Family lost Job or Income due to Pandemic



Lunna Lopes et al. Kaiser Fam Foundation, March 3, 2021

Had Trouble Paying Basic Living Expenses Past 3 Months

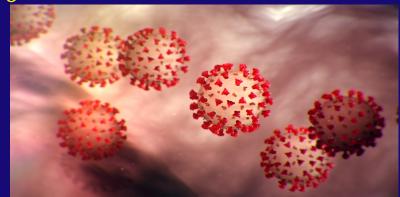


Lunna Lopes et al Kaiser Fam Found., March 3, 2021

The Stress of Covid-19 & Mental Health

Study of 5,412 adults interviewed June 24-30, 2020

- 41% reported at least one adverse mental or behavioral health problem
- 31% symptoms of anxiety depressive disorder

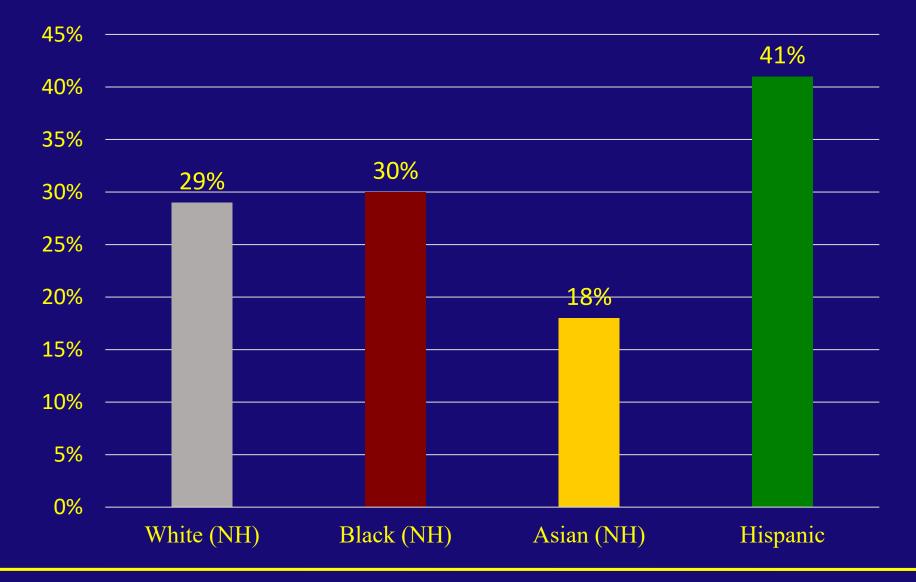


- 26% trauma & stressor-related disorder (TSRD) linked to the pandemic
- 13% increased substance use to cope with stress related to Covid-19

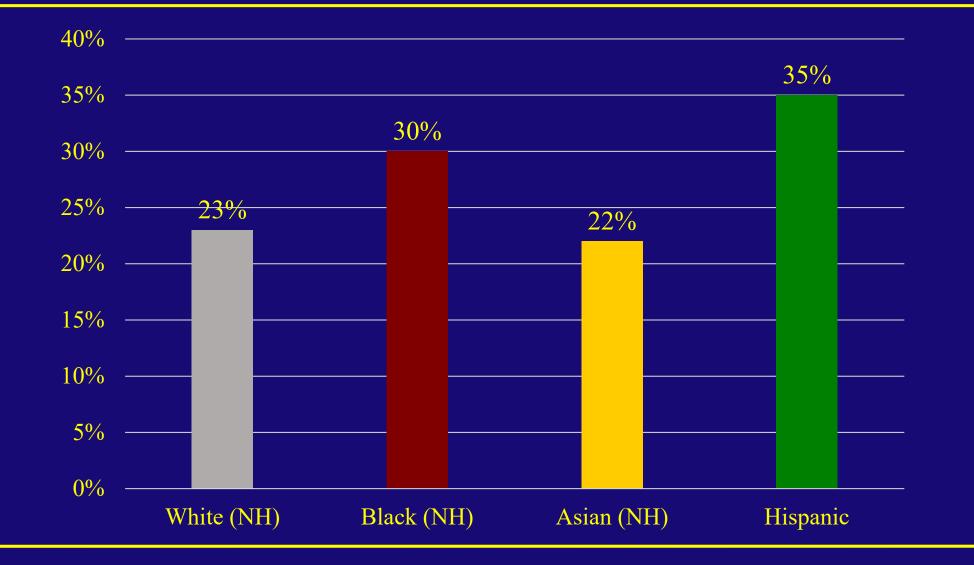
CDC

• 11% seriously considered suicide in past 30 days

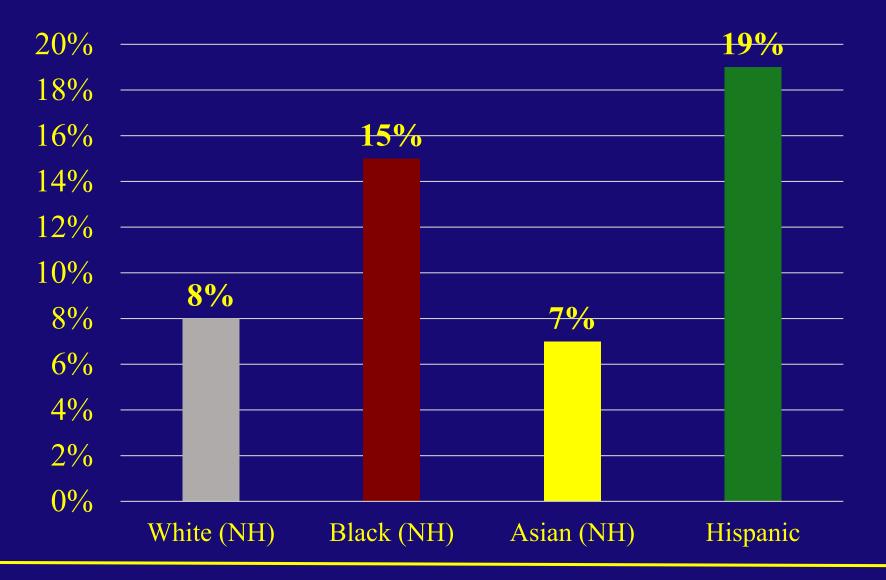
Symptom of Anxiety/Depressive Disorder



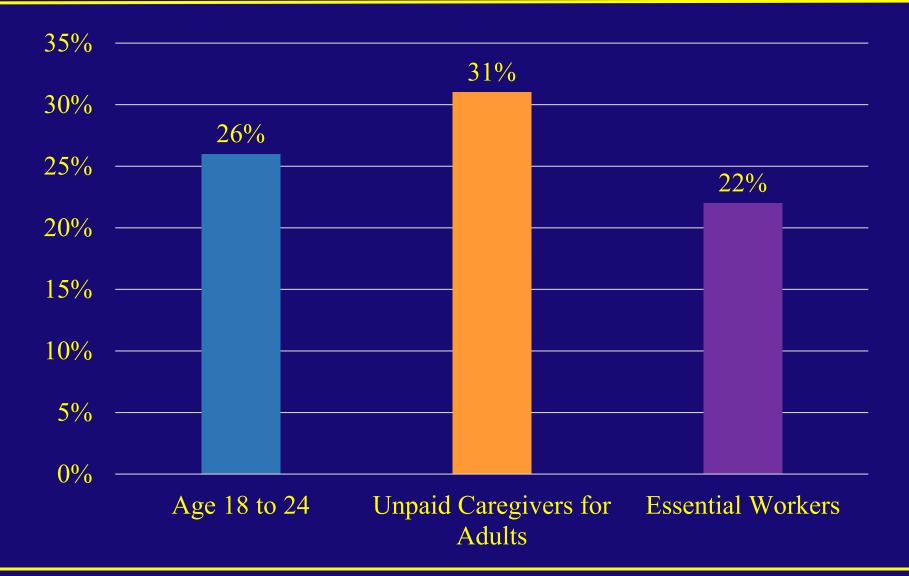
Started or Increased Substance Use to Cope with Pandemic- related stress



Seriously Considered Suicide in Last month



Seriously Considered Suicide in last Month



Covid-19 and Populations of Color

- It has aggravated their vulnerability to mental health issues
- There has been increased experiences of
- the death of loved ones, grief, loss
- experiencing the suffering of loved ones



- Unsplash.com
- anxiety and fear of getting infected by the disease
- decrease of social support systems
- fear of racial bias and discrimination in disease testing and treatment

R.S. Sneed et al., *Psycholical Trauma*, 2020 and psychological consequences of the COVID-19 pandemic in African-American communities: Lessons from Michigan. *Psychol. Trauma* **2020**, *12* (5), 446-448. 10.

Consequences of the cumulative exposure to discrimination and other stressors

"Accelerated Aging" "Premature Aging" Biological "Weathering" Earlier Onset of Chronic Disease

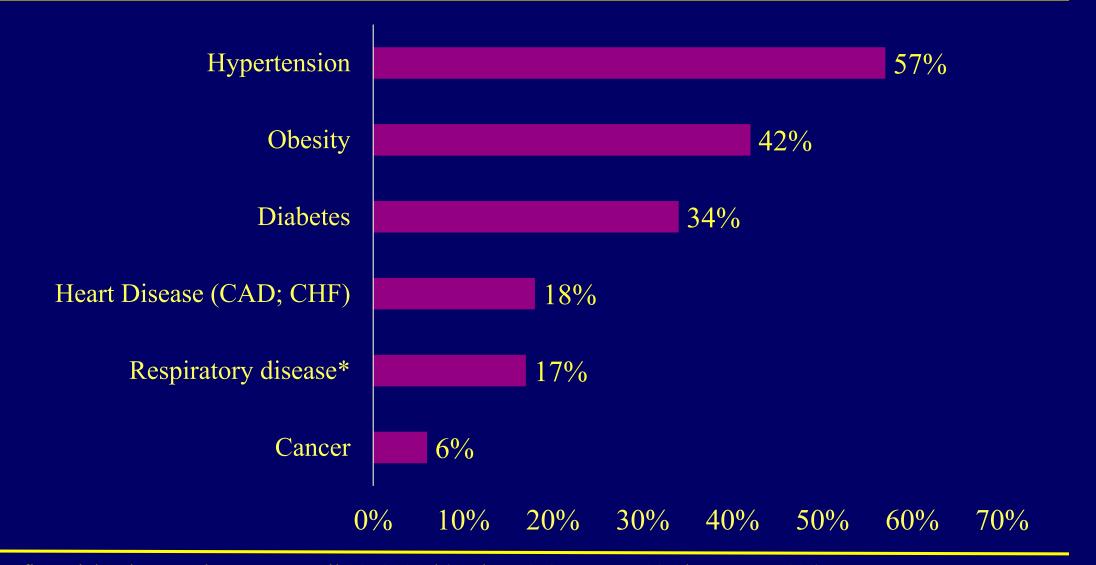
Biological Weathering

- Chronological age captures duration of exposure to risks for groups living in adverse living conditions
 U.S. blacks are experiencing greater physiological wear and tear, and are aging, biologically, more rapidly than whites
- It is driven by the cumulative impact of repeated exposures to psychological, social, physical and chemical stressors in their residential, occupational and other environments, and coping with these stressors
- •Compared to whites, blacks experience higher levels of stressors, greater clustering of stressors, and probably greater duration and intensity of stressors

Geronimus et al, Hum Nature, 2010 ; Sternthal et al 2011

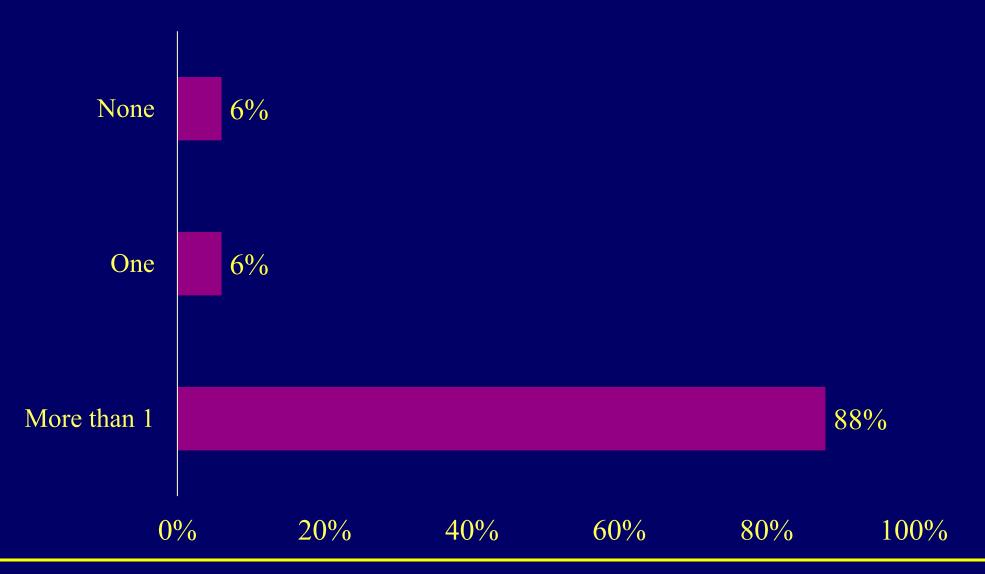


Comorbidities of Covid-19 Patients 5,700 patients, 12 NY hospitals, March 1 to April 4; Av age :63



Safiya Richardson et al. JAMA, April 22, 2020 *(Asthma 9%, COPD 5%, sleep apnea 3%)

Number of Comorbidities, Covid-19 Patients



Safiya Richardson et al. JAMA, April 22, 2020

UNEQUAL TREATMENT

CONFRONTING RACIAL AND ETHNIC DISPARITIES IN HEALTH CARE Populations of color receive poorer quality medical Care

INSTITUTE OF MEDICINE

Race and Access to Specialty Care

- Analysis of 10 years of data (2008 to 2017) of all patients admitted for heart failure (HF) at BWH
- Compared to Whites, Blacks and Latinos were less likely to be admitted to cardiology and more likely admitted to general medicine service (GMS)
- Admission to GMS linked to higher 30-day readmission rates
- On cardiology service, patients have better outcomes and better amenities (private rooms, etc)
- Women and older age (>75) were also less likely to be admitted to cardiology
- Results adjusted for covariates (eg, neighborhood SES, comorbidity, insurance, and having seen a cardiologist or PCP)

L.A. Eberly et al, Circulation: Heart Failure, 2019



The Science is Overwhelming

- Research studies reveal little positive effects of diversity training programs on the careers of women and minorities
- In a review of over 900 studies of antibias interventions, Paluck & Green found little evidence that diversity training reduces bias



Pixabay.com

• Yes, training can increase knowledge about diversity and attitudes toward diversity, but to the extent that it triggers positive changes, they are small and short-term

Dobbin & Kalev, Anthropology Now, 2018

Limits of Implicit Bias Training

Before and after scores on the IAT test from over 400 studies found:

- Observed effects of the IAT on reducing implicit bias were small
- There were even weaker effects on reducing explicit bias
- Other evidence also suggests that some participants learn to game the test



Chiephienie

Reducing Racial Bias Among Health Care Providers: Lessons from Social-Cognitive Psychology

Diana Burgess, PhD^{1,2}, Michelle van Ryn, PhD, MPH^{1,3}, John Dovidio, PhD⁴, and Somnath Saha, MD, MPH⁵

Multiple Prejudice-reducing Strategies:

- Stereotype replacement
- Counter-stereotype imaging
- Individuation
- Perspective taking
- Increasing interracial contact

The Devine Solution

- Implicit biases viewed as deeply engrained habits that can be replaced by learning multiple new prejudicereducing strategies
- Non-black adults were motivated to:
- \checkmark Increase their awareness of bias against blacks
- \checkmark Increase their concerns about the effects of bias
- ✓ Implement multiple strategies
- These were effective in producing substantial reductions in bias that remained evident three months later

Model Program

- Patricia Devine's Model
- Extensive 12-week curriculum
- Observed effects were stronger for persons concerned about discrimination
- Effects stronger for those who completed the homework exercises



Unsplash.com

Devine, P. G., Forscher, P. S., Austin, A. J., & Cox, W. T. L. 2012 J Exp Soc Psych

Promising Strategies

- Training alone will not change the workplace environment without larger organizational changes
- Multi-dimensional diversity initiatives that include not only implicit biases but structural discrimination
- Recruiting decision-makers to identifying and participating in finding solutions
- Put leaders in close contact with people from different racial/ethnic groups



Priority

Renewed Investments in Eliminating Inequities in the Receipt of High Quality Care

Building More Health into the Delivery of Medical Care

Diversifying the Workforce to meet the Needs of all Patients

Physician Race & Health Care

- A RCT of 1,300 Black men
- Recruited from barbershops and flea markets
- Given a coupon for a free health care screening at a Saturday clinic for
 - -- blood pressure,
 - -- body mass index,
 - -- cholesterol,
 - -- diabetes



- Men randomized to see black doctors or not
- \$50 incentive for clinic attendance
- Free Uber rides if need for transportation

Alsan, Garrick, Graziani, American Economic Review, 2019 Black Illustrations

Black Doctors and Black Health

Men who saw a Black Doctor
✓ 29% more likely to talk other health problems

✓ 47% more likely to do for diabetes



- \checkmark 56% more likely to get a flu vaccine
- ✓ 72% more likely to do screening for cholesterol

Progress (or lack thereof) in Medicine

- In 2014, there were 27 fewer African American males in the first year of Medical School than there had been in 1978 (36 years earlier)
- In the mid-1960s, 2.9% of all practicing physicians in the US were black





Black Illustrations

AAMC, Altering the Course, 2015; Deville et al. JAMA Internal Med, 2015; AAMC, 2019

Provider Cultural Competence

- Study of 437 people living with HIV/AIDS and 45 providers
- Created 20-item scale, self-rated cultural competence



- Racial disparities were found in the receipt of ARVs, self-efficacy and viral suppression among patients of low cultural competence providers
- Minority patients whose providers were high (vs low) on cultural competence, more likely to be on ARVs, have high self-efficacy and report complete ARV adherence
- When cultural competence was high no racial

disparitionath Saha et al., Journal General Internal Medicine, 2013 pixabay

Cultural Competence Scale (Selected)

- Family & friends as important to health as doctors
- Social history contributes to how I care for patients
- I am familiar with lay beliefs my patients have
- I ask my patients about alternative therapies they use
- I find out what patients think is cause of their illness
- I involve patients in decisions about their health care

The Future of Nursing 2020–2030 Charting a Path

to Achieve Health Equity

NATIONAL ACADEMY OF MEDICINE

Committee

MARY WAKEFIELD (Co-Chair), University of Texas at Austin DAVID R. WILLIAMS (Co-Chair), Harvard University MAUREEN BISOGNANO, Institute for Healthcare Improvement JEFFREY BRENNER, JunaCare PETER I. BUERHAUS, Montana State University MARSHALL H. CHIN, University of Chicago REGINA S. CUNNINGHAM, Hospital of the University of Pennsylvania

JOSÉ J. ESCARCE, University of California, Los Angeles GREER GLAZER, University of Cincinnati MARCUS HENDERSON, Fairmount Behavioral Health System and University of Pennsylvania ANGELICA MILLAN, County of Los Angeles Department of Public Health JOHN W. ROWE, Columbia University WILLIAM M. SAGE, University of Texas at Austin VICTORIA L. TIASE, New York-Presbyterian Hospital WINSTON WONG, UCLA Kaiser Permanente Center for Health Equity

NATIONAL ACADEMY OF MEDICINE

Statement of Task

The Robert Wood Johnson Foundation asked the National Academy of Medicine to chart a path for the nursing profession to create a culture of health, reduce health disparities, and improve the health and well-being of the nation by preparing an evidence-based and nonpartisan report to examine...

The role of nurses in improving the health of individuals, families, and communities by addressing SDOH

System facilitators and barriers to improving health and achieving a workforce that is diverse The role of the nursing profession in assuring voices of individuals, families, and communities are incorporated into design and operations of clinical and community health systems

The importance of nurse well-being and resilience in ensuring the delivery of highquality care and improving community health

The training and competencydevelopment skills needed to prepare nurses The role of nurses in response to emergencies due to natural & man-made disasters and the impact on health equity

NATIONAL ACADEMY OF MEDICINE

Why Nursing?

- Nurses have long been advocates for health equity and worked to address the root causes of poor health.
- Nurses are present in a wide range of settings outside of traditional health care facilities, working directly in communities to provide care in schools, workplaces, and prisons.
- They make home visits to families, provide primary care to school-age children, administer vaccines, provide health education, coordinate health care services within and across settings, and educate people on preventive measures for staying healthy
- Nurses routinely work with people who have had adverse life experiences, including not only medical challenges but also such social stressors such as trauma, lack of food, or homelessness.
- Nurse practitioners (NPs) working in primary care are often the only providers caring for low-income or uninsured people, Medicaid beneficiaries, and historically disadvantaged groups in both rural and urban populations who cannot always easily access a physician.



NATIONAL ACADEMY OF MEDICINE

Some Key Messages



- Prepare Nurses to Understand and Tackle Health Equity
- Value Nurses' Contributions
- Permanently remove nurse practice barriers
- Fully support nurses
- Bold action is needed to advance nurse readiness
- Value community and public health nursing



NATIONAL ACADEMY OF MEDICINE

Key Message:

Nurses need to leverage their own power to advance health equity by making sure they are well prepared to bridge medical and social needs; taking care of their own mental and physical health so they can care for others; and advocating for policies that address poverty, racism and other conditions that stand in the way of health and well-being.

CREATE A SHARED AGENDA TO ADDRESS SDOH AND ACHIEVE HEALTH EQUITY

Nurse leaders at every level and across all settings can strengthen the profession's long-standing focus on social determinants of health and health equity to meet the needs of underserved individuals, neighborhoods, and communities and to prioritize the elimination of health inequities.

Nurses, educators, and health care leaders have a responsibility to address structural racism, cultural racism, and discrimination within the nursing profession across educational and practice settings, and to build structures and systems that promote inclusivity and health equity.

NATIONAL ACADEMY OF MEDICINE

Recommendation for Nursing Organizations to Create a Shared Agenda

In 2021, all national nursing organizations should initiate work to develop a shared agenda for addressing social determinants of health and achieving health equity. This agenda should include explicit priorities across nursing practice, education, leadership, and health policy engagement.



NATIONAL ACADEMY OF MEDICINE

Key Message: Employers must support nurse well-being so they can in turn support the well-being of others.

FULLY SUPPORT NURSES

All environments in which nurses work affect the health and wellbeing of the nursing workforce. Ultimately, the health and wellbeing of nurses influence the quality, safety, and cost of the care they provide, as well as organizations and systems of care. The COVID-19 crisis has highlighted the shortcomings of historical efforts to address nurses' health and well-being.

Structural racism, cultural racism, and discrimination exist within nursing as in other professions. Nurses of color experience discrimination and bias within the workplace and educational systems, compounded by the lack of diversity among the nursing workforce and faculty. Nurses, educators, and health care leaders have a responsibility to address structural racism, cultural racism, and discrimination within the nursing profession across educational and practice settings, Nurse leaders have a responsibility to address discrimination based on identity (e.g, sexual orientation, gender), place (e.g., rural, urban), and circumstances (e.g., disabled, mental health condition) within the nursing profession and to help build structures and systems at the societal level that address these issues to promote health equity.

NATIONAL ACADEMY OF MEDICINE

Recommendation to

Promote Nurses' Health and Well-Being

By 2021, nursing education programs, employers, nursing leaders, licensing boards, and nursing organizations should initiate the implementation of structures, systems, and evidencebased interventions to promote nurses' health and well-being, especially as they take on new roles to advance health equity.

NATIONAL ACADEMY OF MEDICINE

Recommendation to Strengthen Nursing Education

Nursing education programs, including continuing education, and accreditors and the National Council of State Boards of Nursing should ensure that nurses are prepared to address social determinants of health and achieve health equity.



NATIONAL ACADEMY OF MEDICINE

Building More Health into the Delivery of Healthcare

Providing Care that Addresses the Social context

Care that Addresses the Social context



Why treat illness and send people back to live in the same conditions that made them sick in the first place?

Recent Report: National Academy of Medicine

The National Academies of SCIENCES • ENGINEERING • MEDICINE

CONSENSUS STUDY REPORT

INTEGRATING Social Care Into the Delivery of Health Care

MOVING UPSTREAM TO IMPROVE THE NATION'S HEALTH Many opportunities for health care systems and professionals to address the social needs of patients

The 5 As:

Health Care System Activities that Address Social Needs

Adjustment

Activities that focus on altering clinical care to accommodate identified social barriers

Assistance

Activities that provide assistance in connecting patients with relevant social care resources

Awareness

Activities that identify social risks and assets

Alignment

Activities that facilitate synergies and invest in and deploy social care assets in the community

Advocacy

Activities that work with partner social care organizations to promote policies that facilitate creations and redevelopment of assets or resources to address health and social needs

K Bibbins-Domingo, JAMA 2019

Communities

Transportation-Related Examples

Awareness

• Ask patients about their access to transportation



Adjustment

• Reduce the need for in-person health care appointments by using other options such as telehealth appointments



Assistance

• Provide transportation vouchers so that patients can travel to health appointments; vouchers can be used for ride-sharing services or public transit



Alignment

• Invest in community ride-sharing



Advocacy

• Work to promote policies that fundamentally change the transportation infrastructure within the community



Center for Health & Wellness, Wichita, KS

- A state-of-the-art primary health care facility
- Illustrates how barriers to health care for African Americans can be reduced



- Started in 1998 and directed by nurse practitioner, Arneatha Martin
- Almost 8,000 sq. ft. & 6 exam rooms, the center sees about 15,000 patients annually
- Less than 30% of patients are insured
- Uses sliding fee scale for uninsured & provides uncompensated care to the very poor

Center for Health and Wellness: Innovation

- Clients of center know that their insurance & economic status are unrelated to quality and quantity of care they will receive
- Dramatically communicated to every client in that questions about insurance coverage or payment for care are not raised at the end of the health care visit, when the individual has already received all their needed medical care
- Clients can pay for services by volunteering at the clinic; \$10 deducted from bill for every hour volunteered at the center
- Clients also deduct from bill for each hour spent in health education classes.
- Points earned by expectant mothers for each prenatal appointment kept can be used to shop in the center's Stork's Nest a room full of baby supplies

Long-term Strategy

Create Communities of Opportunity to minimize, neutralize and dismantle the systems of racism that create inequities in health



Reducing Inequities Address Place-Linked Determinants of Health

- Enrich the quality of <u>neighborhood</u> environments
- Increase <u>economic development</u> in poor areas
- Improve <u>housing quality</u> and the <u>safety</u> of neighborhood environments



Communities of Opportunity

- Invest in early childhood programs
- Reduce Childhood Poverty
- Enhance Income Opportunities



- Prioritize workforce development for Youth and Adults
- Improve Neighborhood and Housing Conditions
- Enhance economic opportunities to build strong families/reduce disparities in marriage
- Raise Awareness levels of Racial Inequities and Build Political Will to Address them

Workforce Development

- Mentoring Elementary School students
- Create internships for High School Students
- Job-training Opportunities
- Pipeline Programs to be health professionals For the Employed
- Reducing attrition from entry-level jobs
- Create opportunities to advance from entry-level, frontline jobs
- Reduce trust deficit of employees vs their companies
- Mentoring/Sponsorship to support the advancement of employees of color



McKinsey & Co, Race in the Workplace: Black Experience in the US Private Sector, 2021

Communities of Opportunity

Improve Neighborhood and Housing Conditions

Moving to Opportunity

- The Moving to Opportunity Program randomized families with children in high poverty neighborhoods to move to less poor neighborhoods.
- 10 to 15 years later, movers had lower levels of obesity, severe obesity & diabetes risk (HbA1c)



Unsplash.com

Reducing Inequities in Health

We need to build on individual and community resources and resilience factors that can mitigate the negative effects of stressors on health

Discrimination, Social Ties, Biomarkers

- 331 Black adolescents in 9 rural counties in Georgia
- Discrimination assessed at age 16, 17, and 18
- Stably high levels of discrimination as a teen linked to higher biomarkers (overnight cortisol, epinephrine, norepinephrine, SBP, DBP, CRP, BMI) at age 20
- Social support: 11 item caregiver emotional & instrumental support and 4 item measure of peer support
- High social support (caregiver and peer) erased the negative effect of high discrimination on biomarkers

Gene Brody et al., 2014., Child Development

Religious Attendance & Mortality: Nurses

- Large study (75,534), 20 yr follow-up, time varying measures, rigorous methods
- Attendance more than once a week associated with a
- 33% lower risk of all-cause mortality (12% lower for whites; 36% lower for blacks)
- 27% lower risk of CVD mortality
- 21% lower risk of cancer mortality

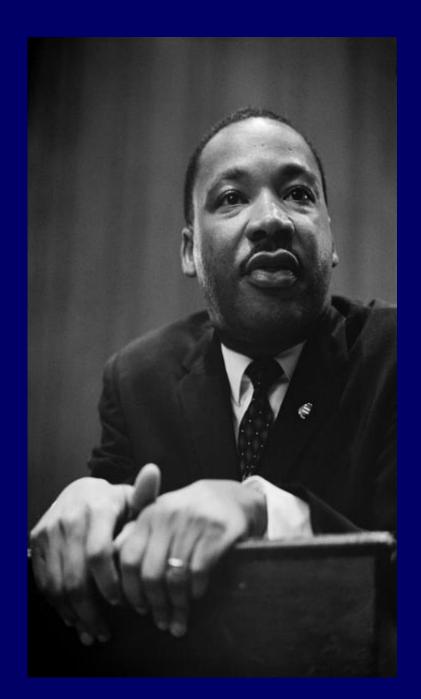
(breast and colorectal cancer) Mediators of the association: Depressive symptoms: 11% Smoking: 22% Social support: 23% Optimism: 9%



Li, Stampfer, Williams, VanderWeele, JAMA Internal Med, 2016

"It may well be that we will have to repent in this generation. Not merely for the vitriolic words and the violent actions of the bad *people*, but for the appalling silence and indifference of the good people...

Martin Luther King



Further Reading

David R Williams & Lisa A. Cooper, "*Reducing Racial Inequities in Health: Using What We Already Know to Take Action.*" <u>International Journal of</u> <u>Environmental Research and Public Health</u>, 16 (4), 606, 2019.

The Future of Nursing 2020–2030 Charting a Path

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