



The Role of Physicians in Creating Health Equity

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Conflict of interest

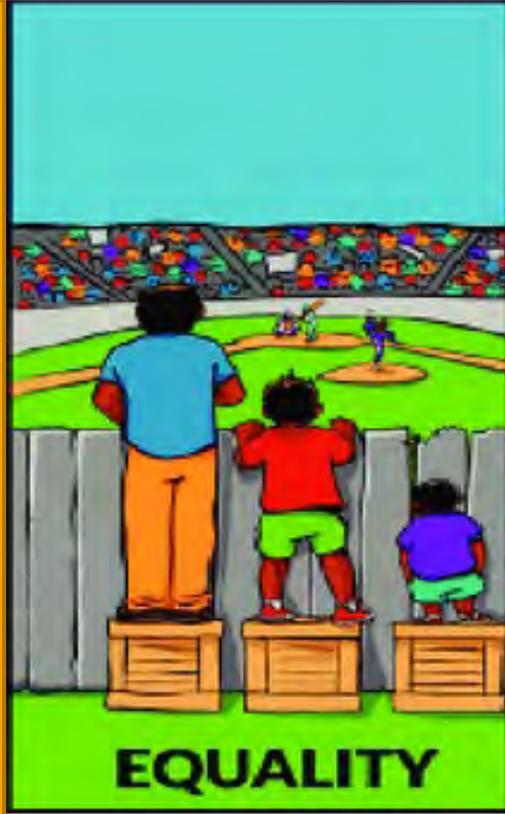
- I have no conflicts of interest to disclose

Learning Objectives

- ▶ Elucidate the health disparities nationally and in our midst locally
- ▶ Focus attention on the role of physicians in improving health equity
- ▶ Provide evidence of successful interventions for healthcare providers to improve health equity

What is Health Equity ?

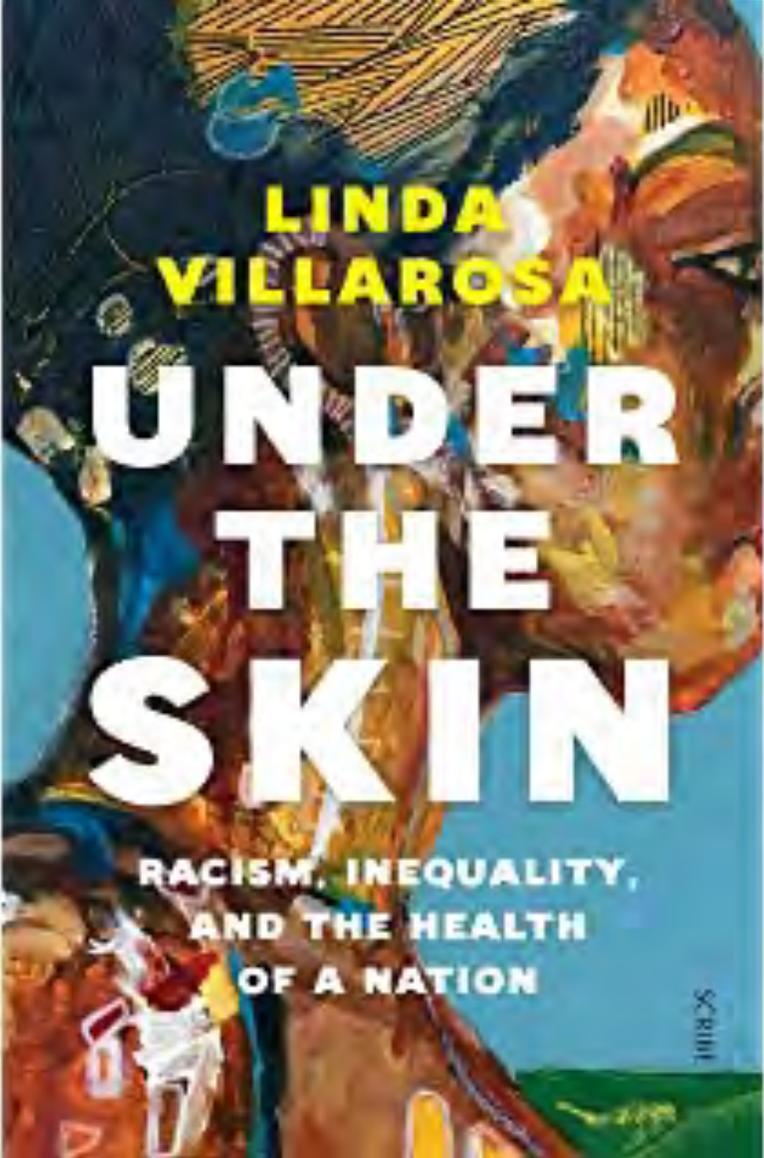
- ▶ Healthy People 2020 defines health equity as "attainment of the highest level of health for all people. Providing the opportunity for every individual to reach their optimal level of health.
- ▶ Health Equity does not mean giving everybody the same thing.



What is a health care disparity?

- ▶ “Health care disparity is not simply a difference in health outcomes by race or ethnicity, but a disproportionate difference attributable to variables other than access to care.”

Gomes C, McGuire TG. Identifying the source of racial and ethnic disparities. In: Smedley B, Stith AV, Nelson AR, eds. Unequal Treatment. National Academies Press: 2003

The book cover features a vibrant, abstract painting in shades of blue, orange, and brown. The painting depicts a figure, possibly a person of African descent, in a dynamic, expressive style. The background is a mix of textures and colors, suggesting a complex narrative or a map of a region. The title 'UNDER THE SKIN' is prominently displayed in large, white, sans-serif capital letters, centered over the painting. Above the title, the author's name 'LINDA VILLAROSA' is written in smaller, yellow, sans-serif capital letters. Below the title, the subtitle 'RACISM, INEQUALITY, AND THE HEALTH OF A NATION' is written in white, sans-serif capital letters. The publisher's name 'SCORPIO' is visible in the bottom right corner of the cover.

**LINDA
VILLAROSA**

UNDER THE SKIN

**RACISM, INEQUALITY,
AND THE HEALTH
OF A NATION**

SCORPIO

Three Main Reasons for Racial Health Disparities

Longstanding discrimination in the institutions and structures of American society that has harmed and continues to harm Black and other minority communities making them less “healthy”.

Racism in society that wears away the bodies of Black people and others who are treated poorly

Bias in healthcare that creates a system of unequal treatment

Social Determinants of Health





Why does this matter to you?

WHO DO WE SERVE?

Figure 21: Dallas County Key Characteristics, 2016 - 2020



Total Population

2,613,539



Medial Household Income

\$61,870



BS degree or above

32.5%

Employment Rate

65.4%

Total Housing Units

1,038,656



No Healthcare Coverage

20.8%

Total Employer Establishments

67,311

Total Households

945,996

Hispanic/Latino (any race)

1,057,835

Source: U.S. Census Bureau, 2016-2020 American Community Survey 5-Year Estimates

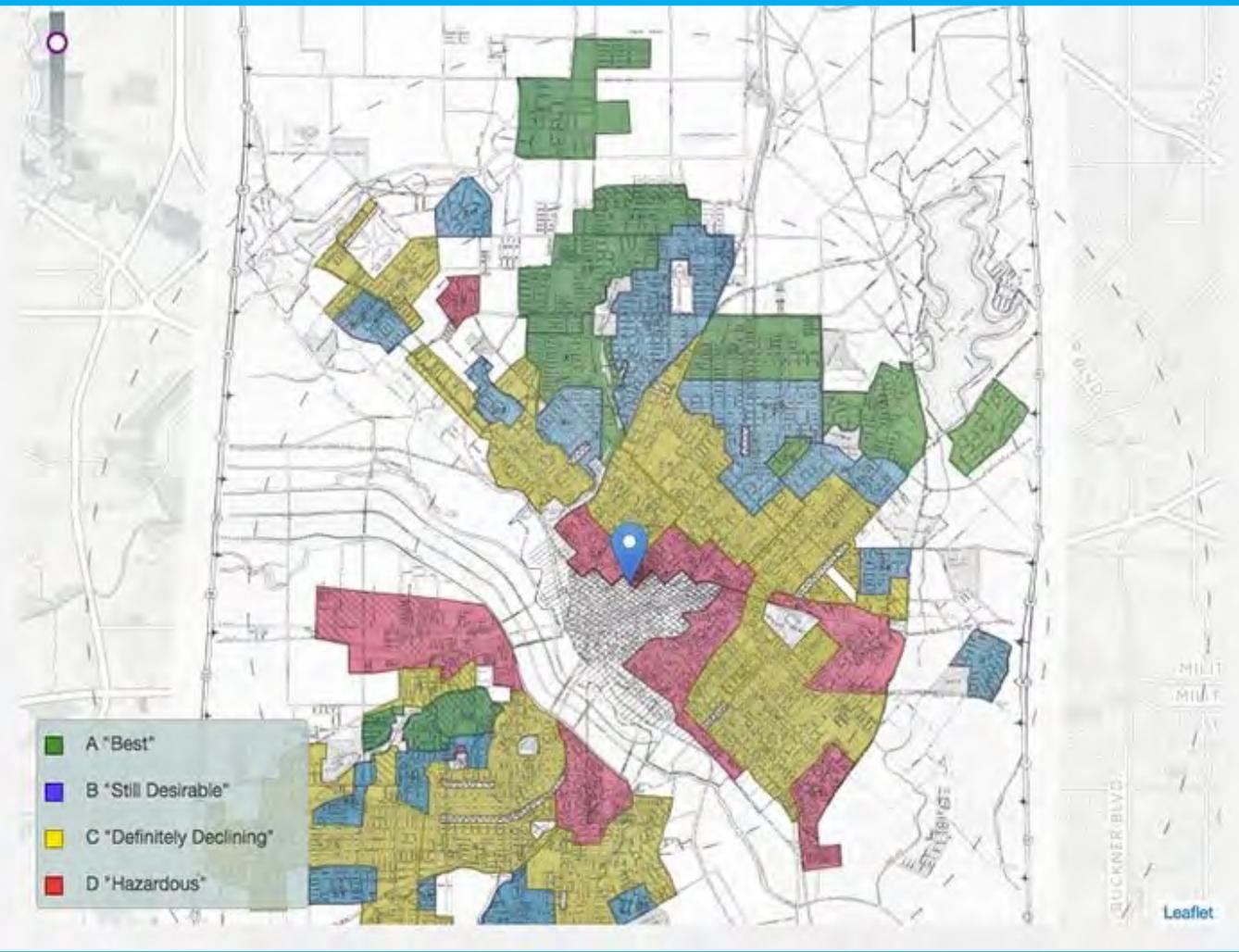
DALLAS COUNTY
HEALTH AND HUMAN SERVICES

Community Health Needs Assessment
Predominant Race/Ethnicity by Zip-code

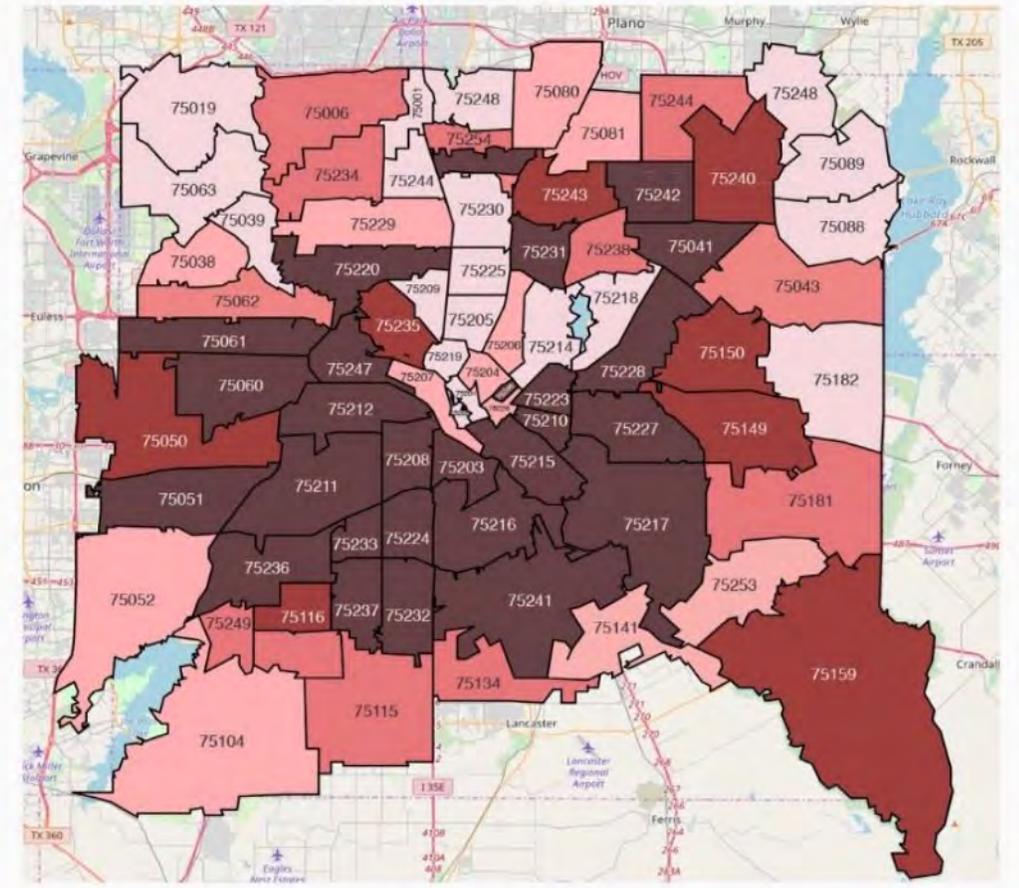


1937 Dallas Redlining Map

2019 SocioNeeds Index Map



Data Source: Conduent Healthy Communities Institute



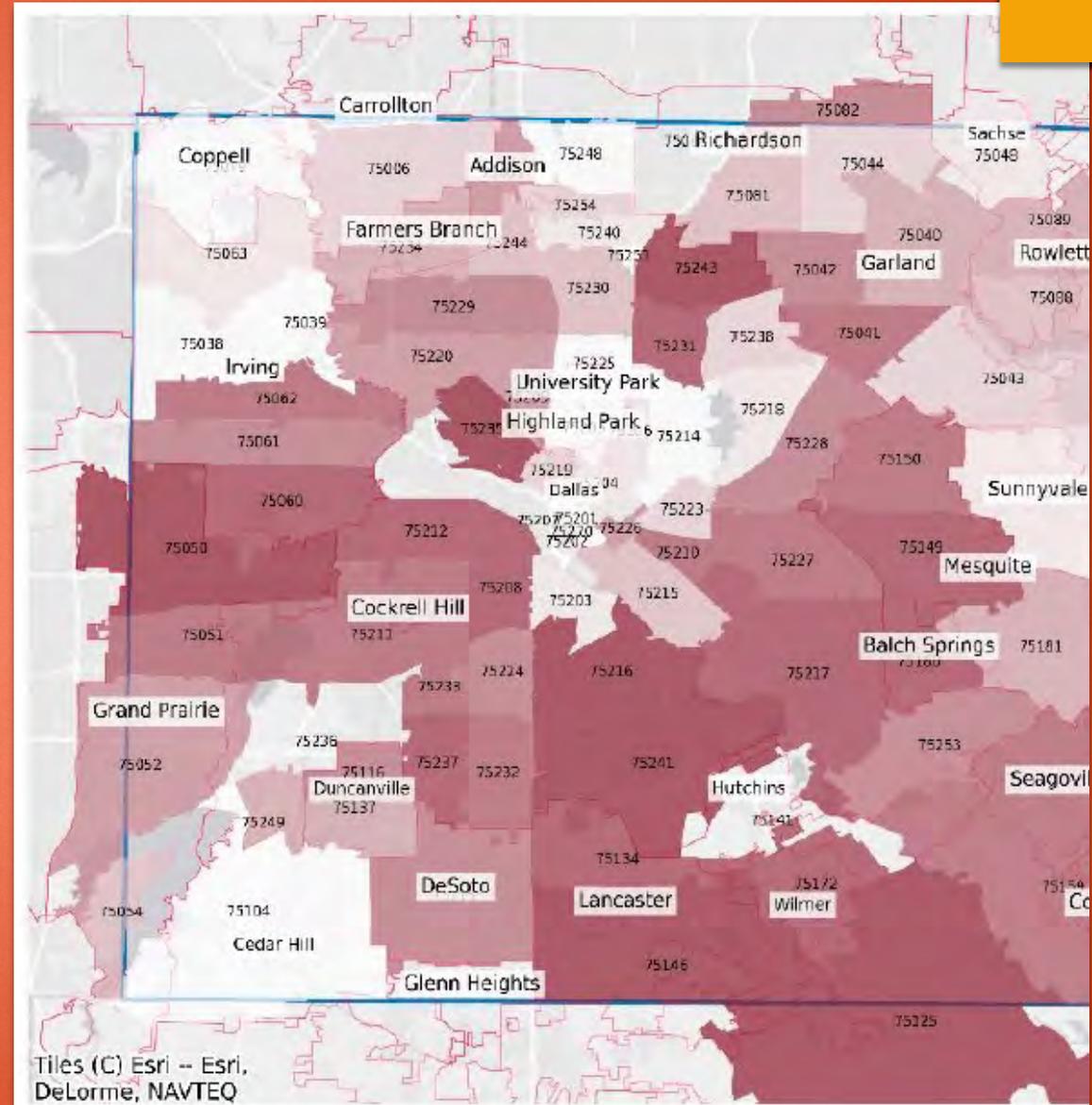
MAP LEGEND

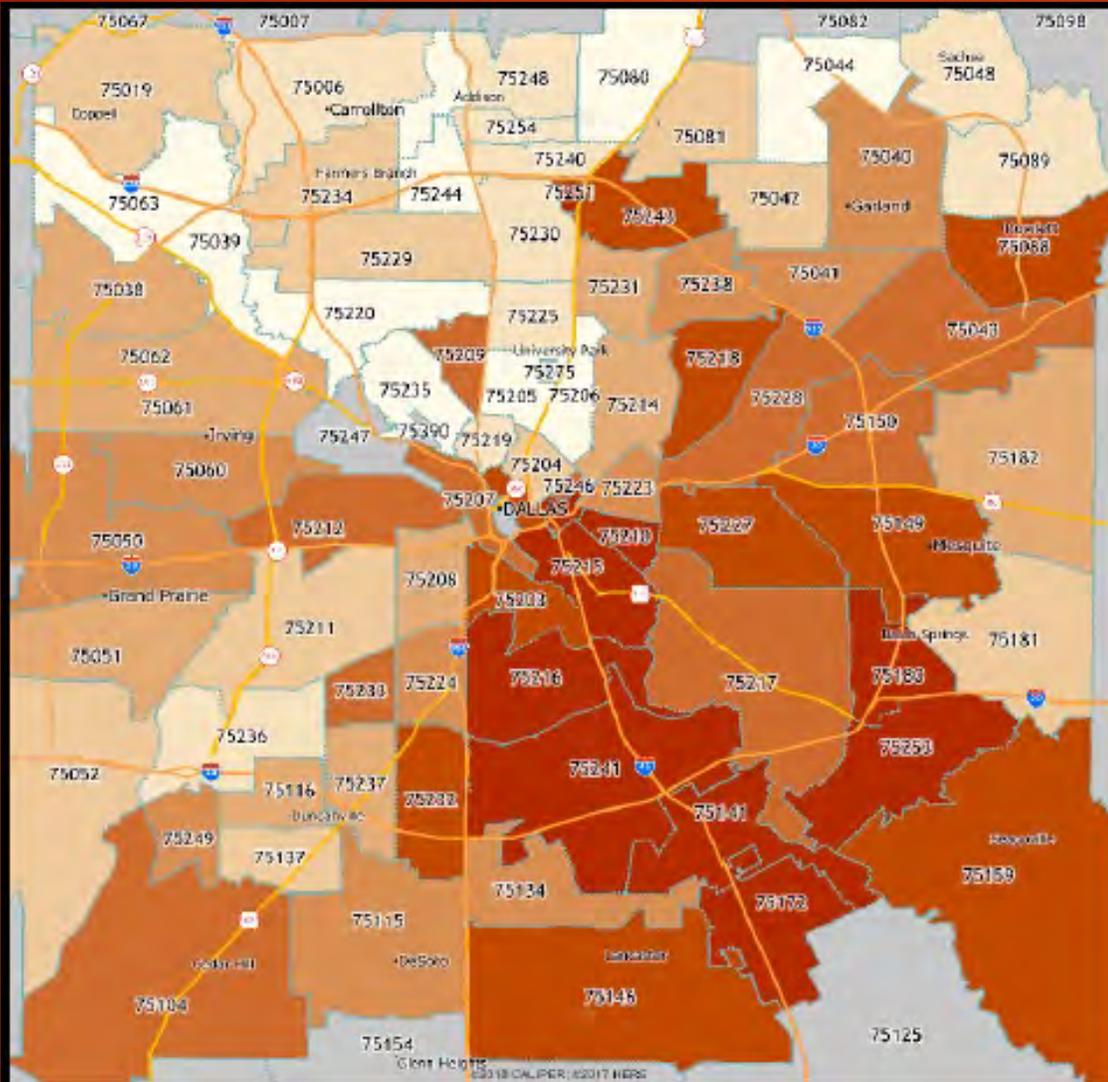
greater need →



Deprivation Areas of Dallas County 2020

► ADI is an index of poverty, education, housing and employment. The darker the color, the greater the need.

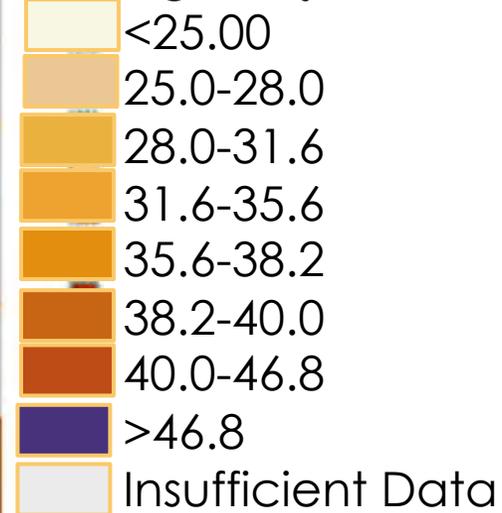




All-Cause Mortality Rate Dallas County, 2012 - 2016

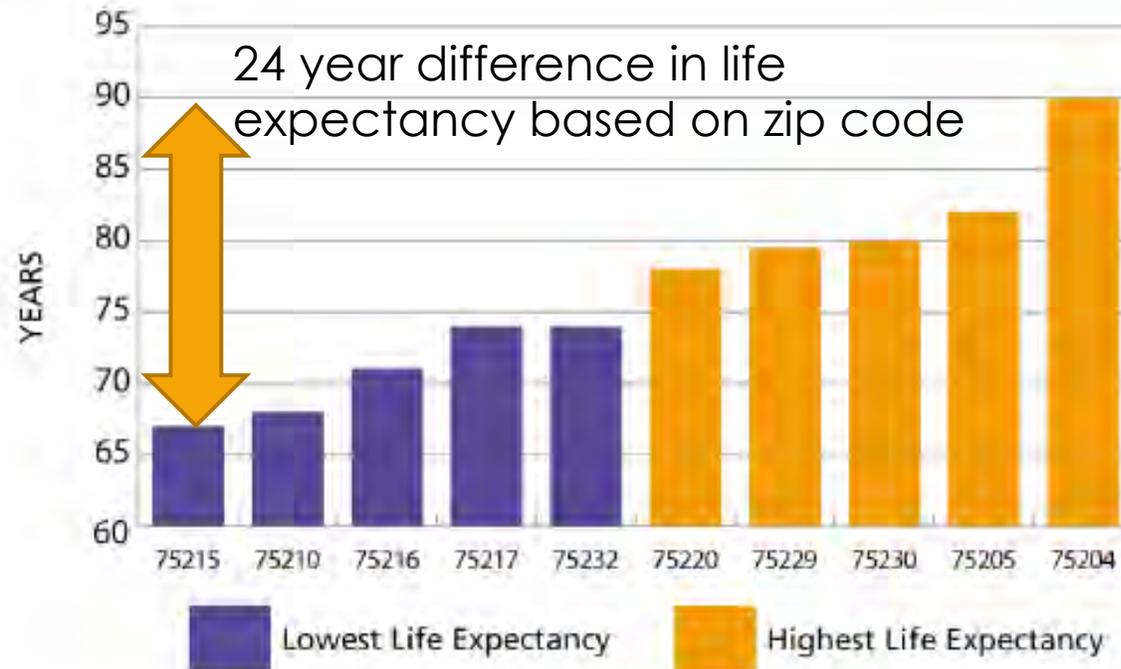
Legend

Age Adjusted Mortality Rate



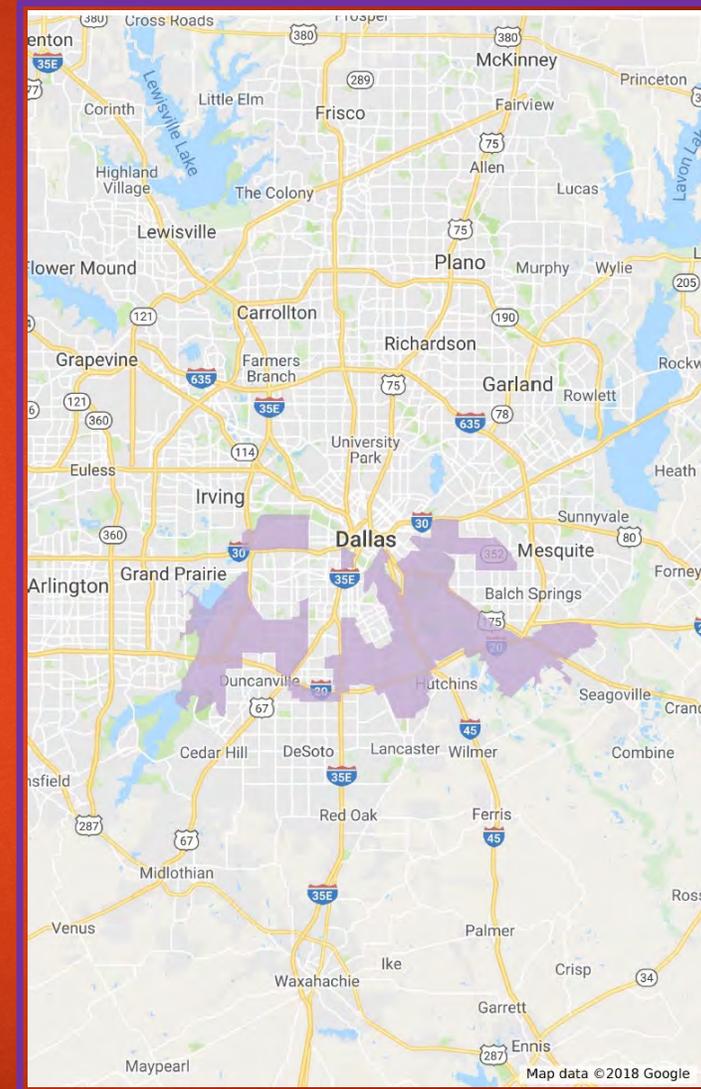
Dallas County Life Expectancy by Zip Code

Life Expectancy



Current Food Deserts in Dallas TX 2018

A food desert is an area that lacks access to affordable fruits, vegetables, whole grains, low fat milk, within a 1 mile with no transportation.

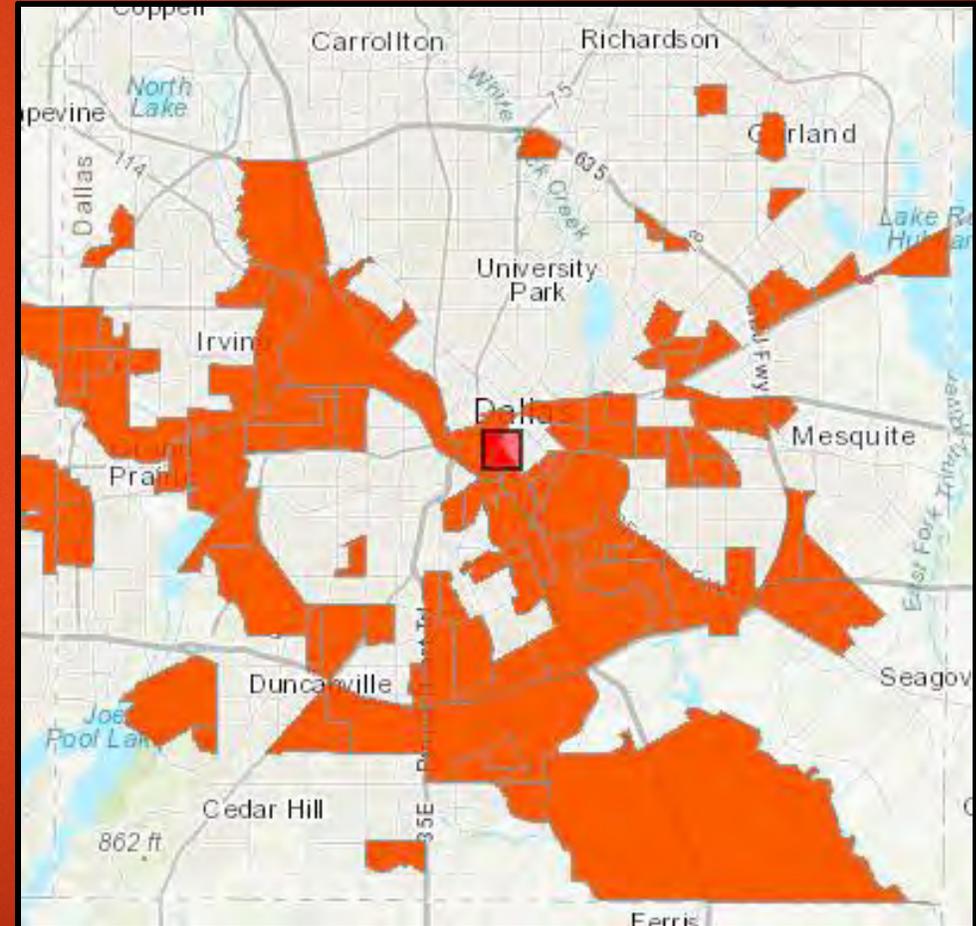


* Food Deserts shown in purple

Current Food Deserts in Dallas TX 2022

Low income, low access areas

A food desert is an area that lacks access to affordable fruits, vegetables, whole grains, low fat milk, within a 1 mile with no transportation.



* Food Deserts shown in purple

Food Deserts

23.5 million people live in urban neighborhoods and rural towns with limited access to fresh, affordable, healthy food, according to the USDA.



2.1 million households do not own a vehicle and live more than 1 mile from the nearest grocery store.



People of the poorest socio-economic status have **2.5 times** the exposure to fast food restaurants compared to those living in the wealthiest areas.



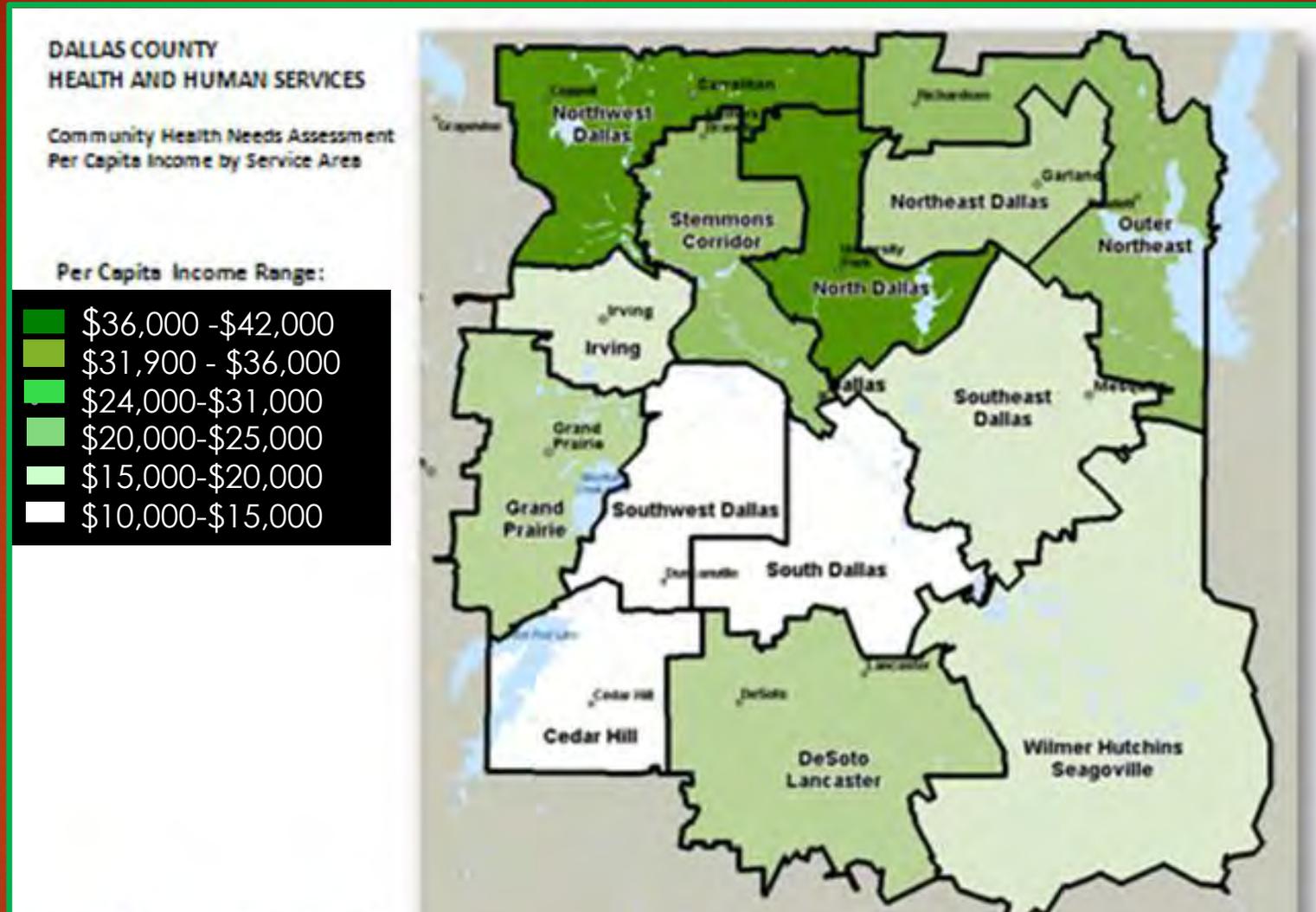
Low income zip codes have more **30%** convenience stores, which tend to lack healthy items, than middle-income zipcodes.



150-200 jobs can be created by a large retail grocery market.



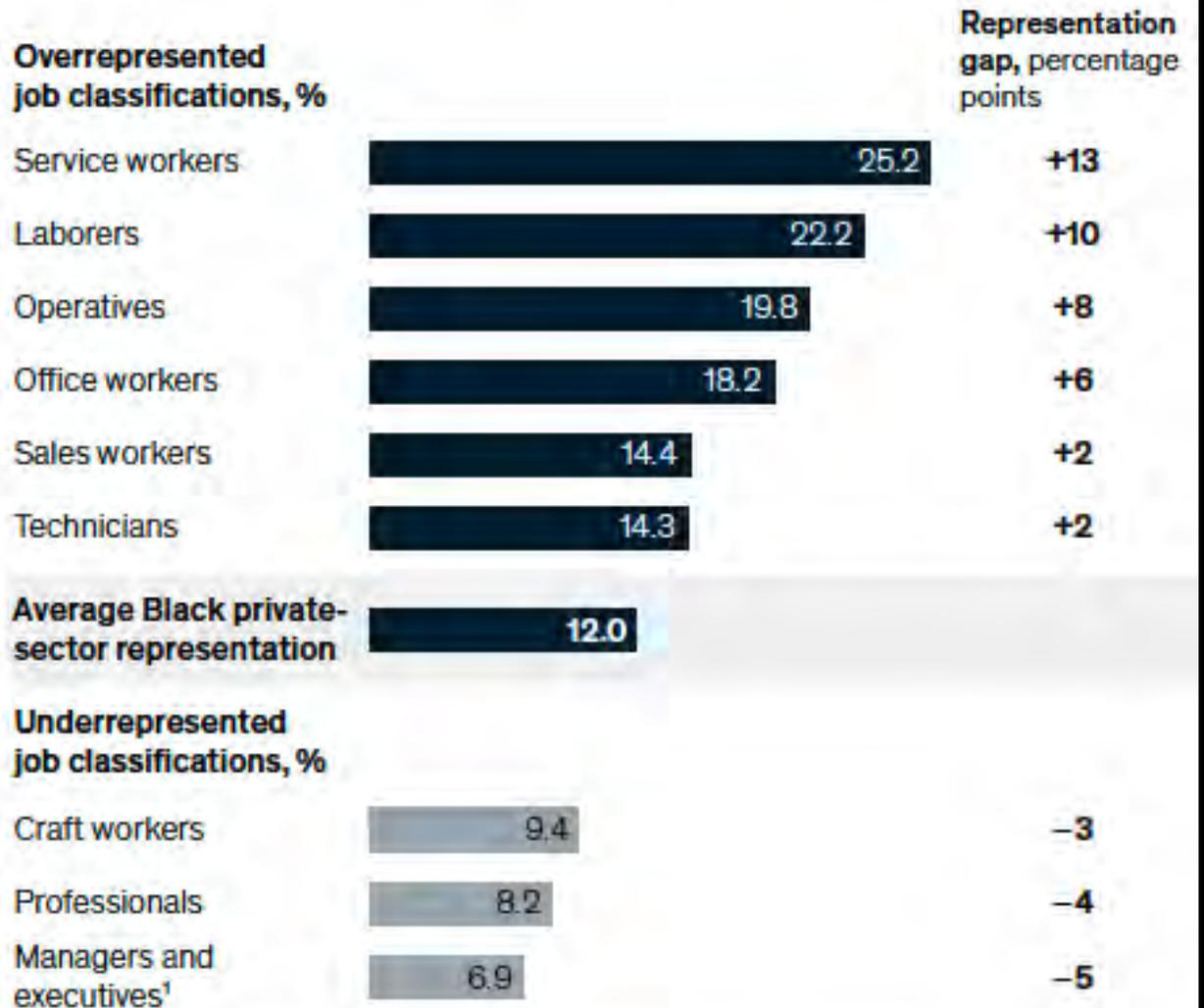
Dallas County Per Capita Income Level



Average per capita income \$24,200
14% County Residents below poverty level
24.5% < High School Education

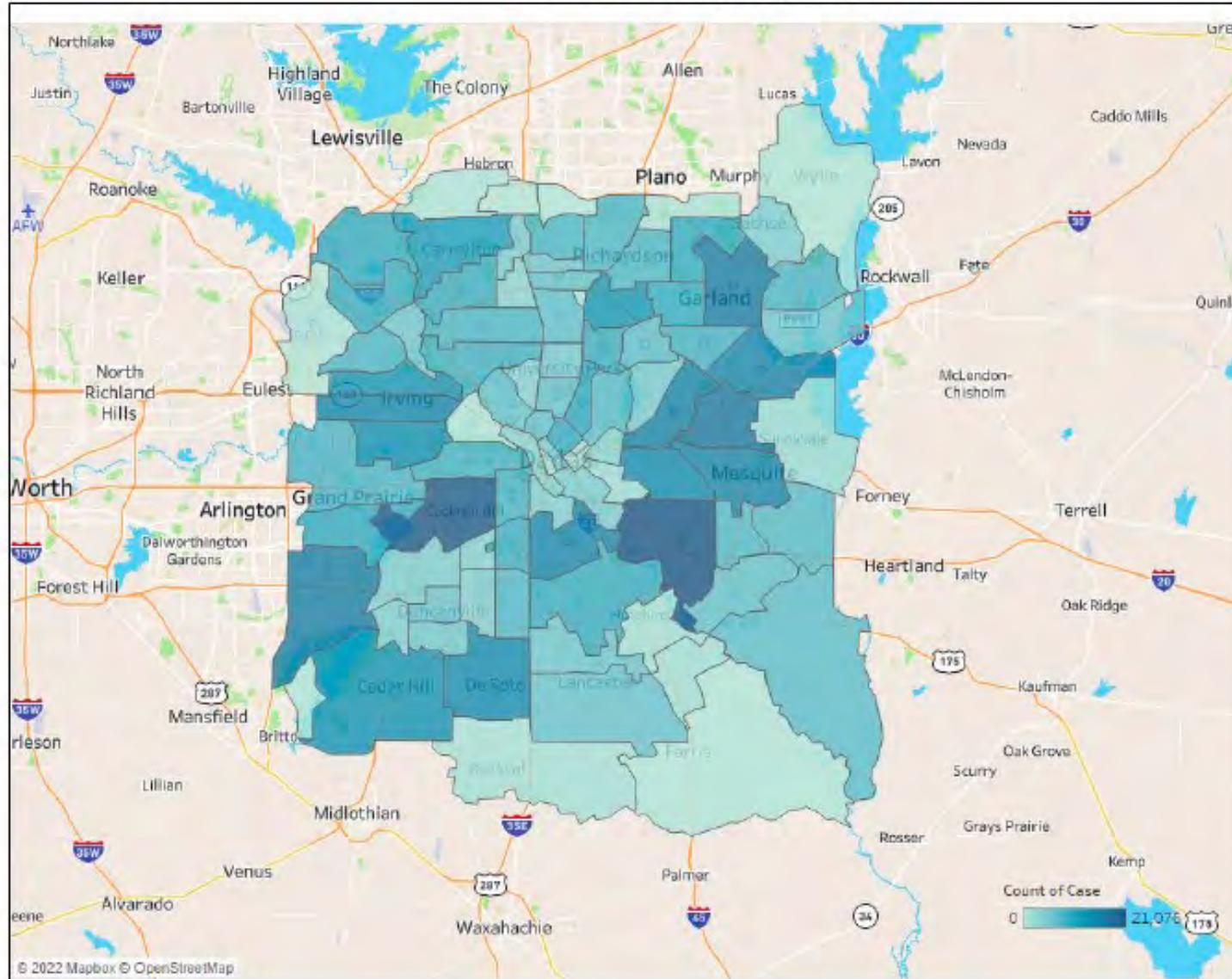
Blacks are 2X more likely to be service worker and 25% less likely to be managers or professionals.

Representation gap in job classification, Black representation, 2019



¹Includes mid-managers and senior managers, which include C-suite-level employees.
Source: Equal Employment Opportunity Commission EEO-1 Report Data, 2018

Figure 1. Cumulative COVID-19 Cases by Zip Code, Dallas County
Total as of July 15, 2022

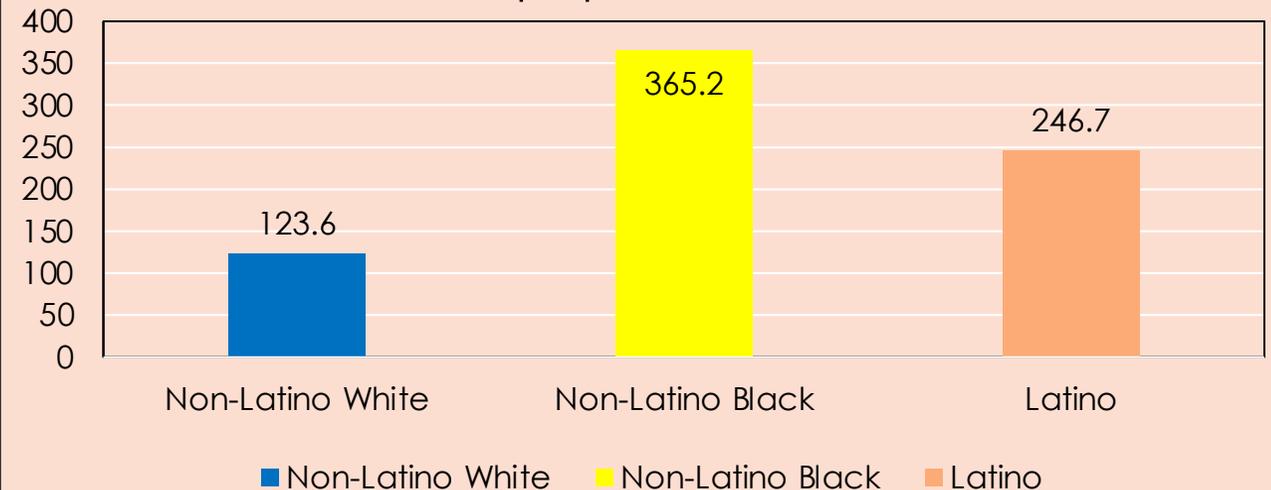


The Color of COVID-19: Structural Racism and the Pandemic's Disproportionate Impact on Older Racial and Ethnic Minorities

Panel A: COVID 19 Death Rate by Age,
per 100,000 population



Panel B: COVID19 Death Rate Among
Age 65+ by Race/Ethnicity per 100,000
population



HOW is COVID-19 related? (as of May 25, 2020)

> 28% of people diagnosed with COVID-19 in the United States are Hispanic, (CDC).

In predominantly Black counties versus White Counties in the

- ▶ COVID-19 infection rate is 3 times higher
- ▶ COVID-19 death rate is 6-fold higher

Social Determinants of Health:

- ▶ Densely populated communities
- ▶ High crime rates
- ▶ Poor food sources
- ▶ Low SES

It's not just the cities:

Iowa: Latinos 6% population but 20% of COVID-19 cases

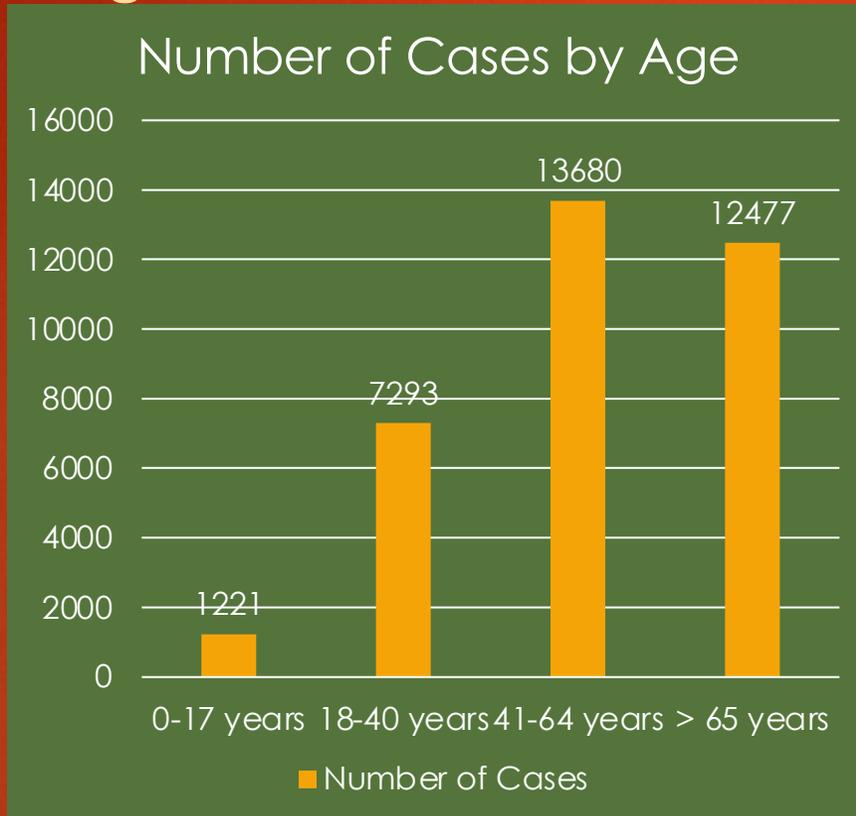
Washington State: Latinos 13% population, but 31% COVID-19 cases

Florida: Latinos 25% population, but approximately 40% of COVID-19 cases

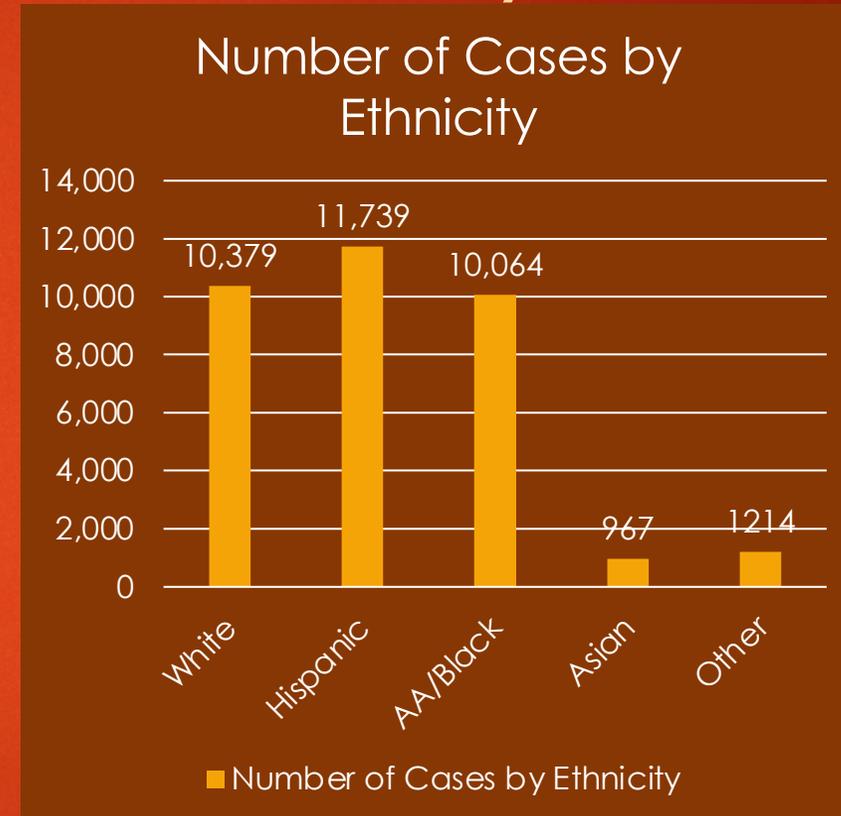
New York Times May 27, 2020

Dallas County Cumulative Hospitalized Confirmed COVID-19 as of 7/15/22

Age



Race/Ethnicity

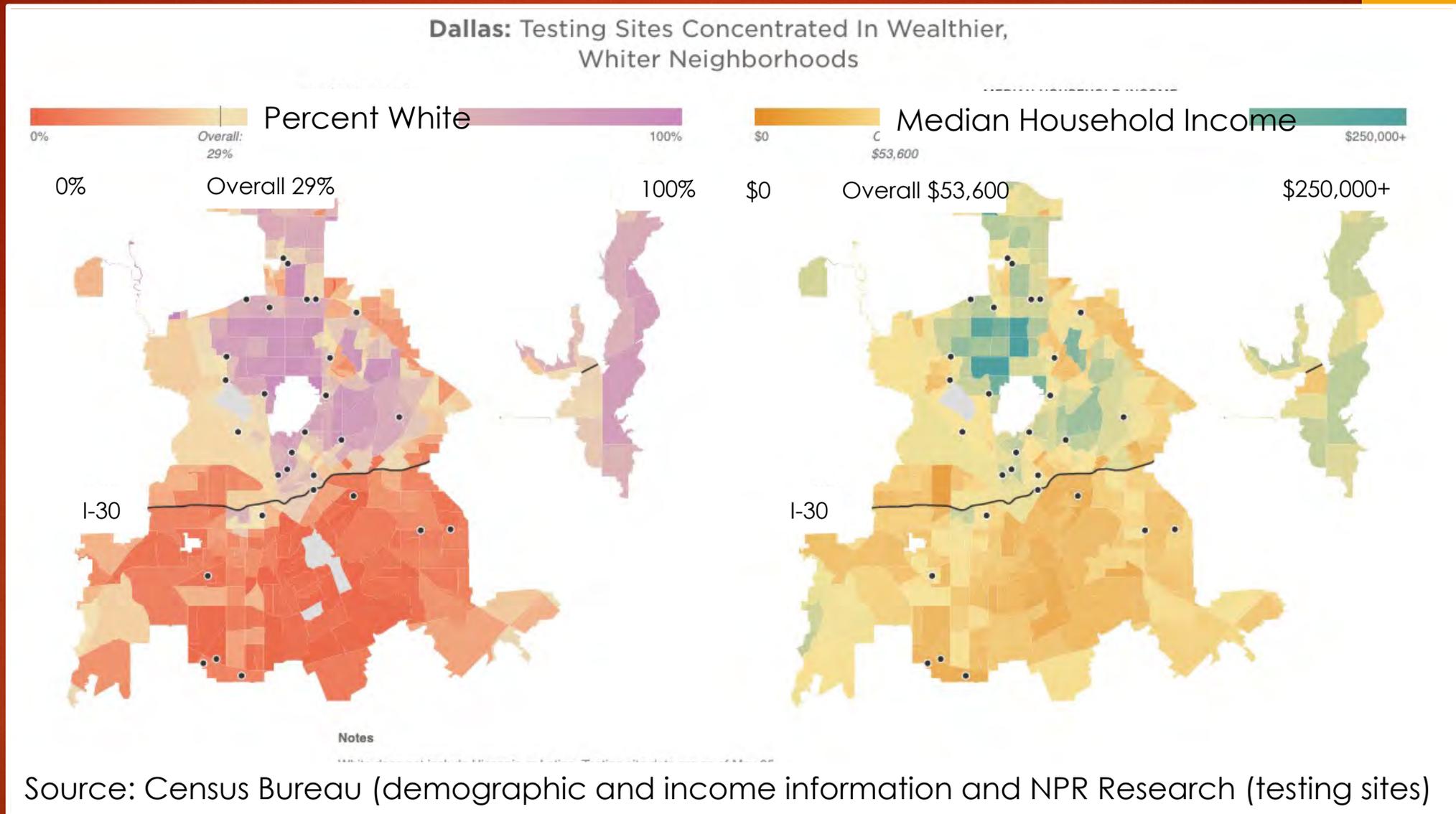


Total Cumulative Hospitalizations: 34,672

Total Cumulative ICU Admissions: 8,113

Total Cumulative Cases on Ventilator: 4,393

Dallas: Testing Sites Concentrated in Wealthier, Whiter Neighborhoods

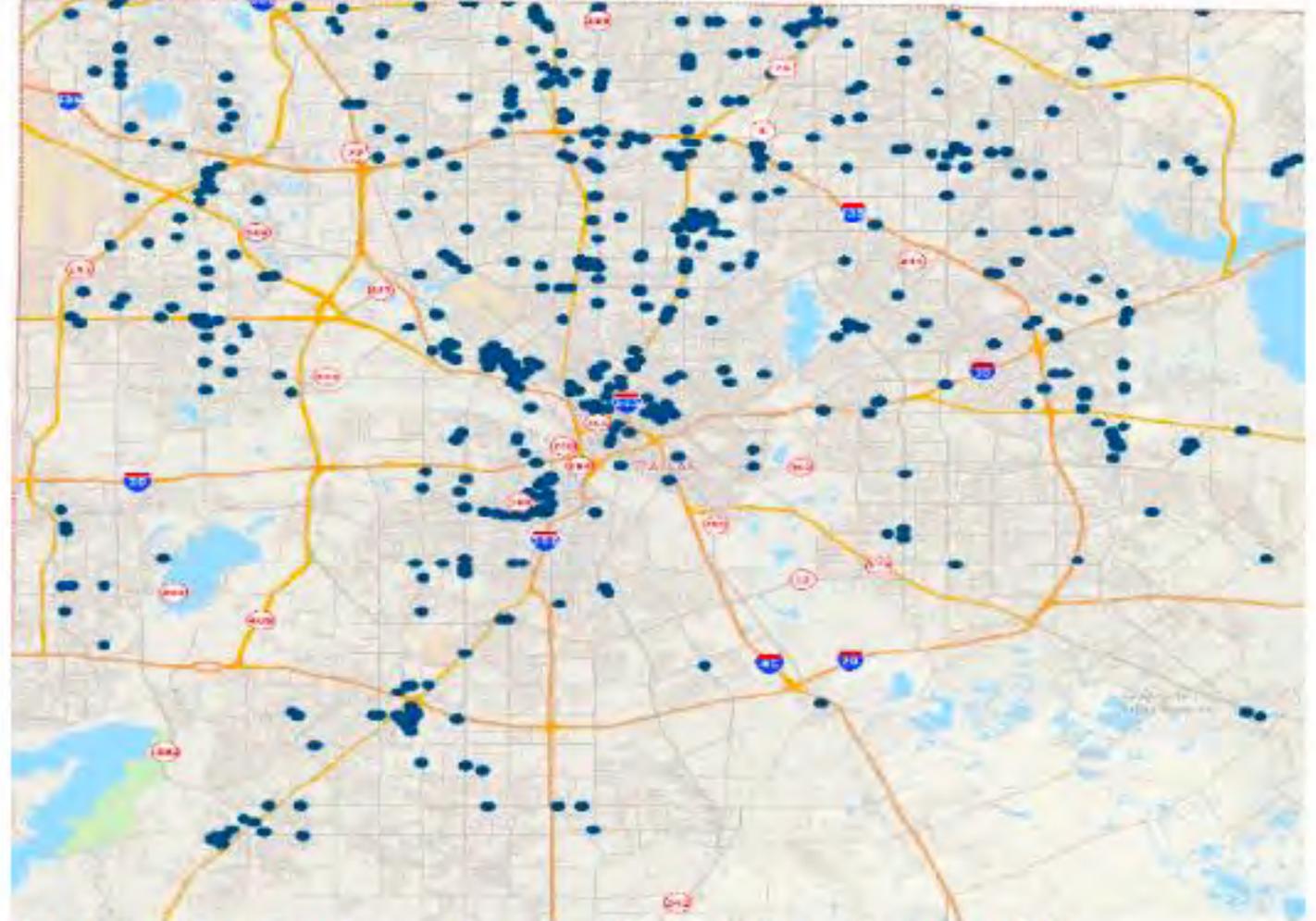


(as of May 25, 2020)

May 25, 2020 NPR.org Morning Edition

There is an insufficient number of physicians to address the demand for care in communities in the southern sector of Dallas County TX.

Figure 44: Primary Care Physicians Geographic Distribution, Dallas County



Data Source: Texas Department of State Health Services Texas Primary Care Office
Year 2020

5 AREAS OF SOCIAL DETERMINANTS OF HEALTH (SDOH)

Neighborhood and Built Environment

- Access to foods that support healthy eating patterns
- Quality of Housing
- Crime and Violence
- Environmental Conditions

Economic Stability

- Poverty
- Employment
- Food Insecurity
- Housing Instability

Social Determinants Of Health

Health and Health Care

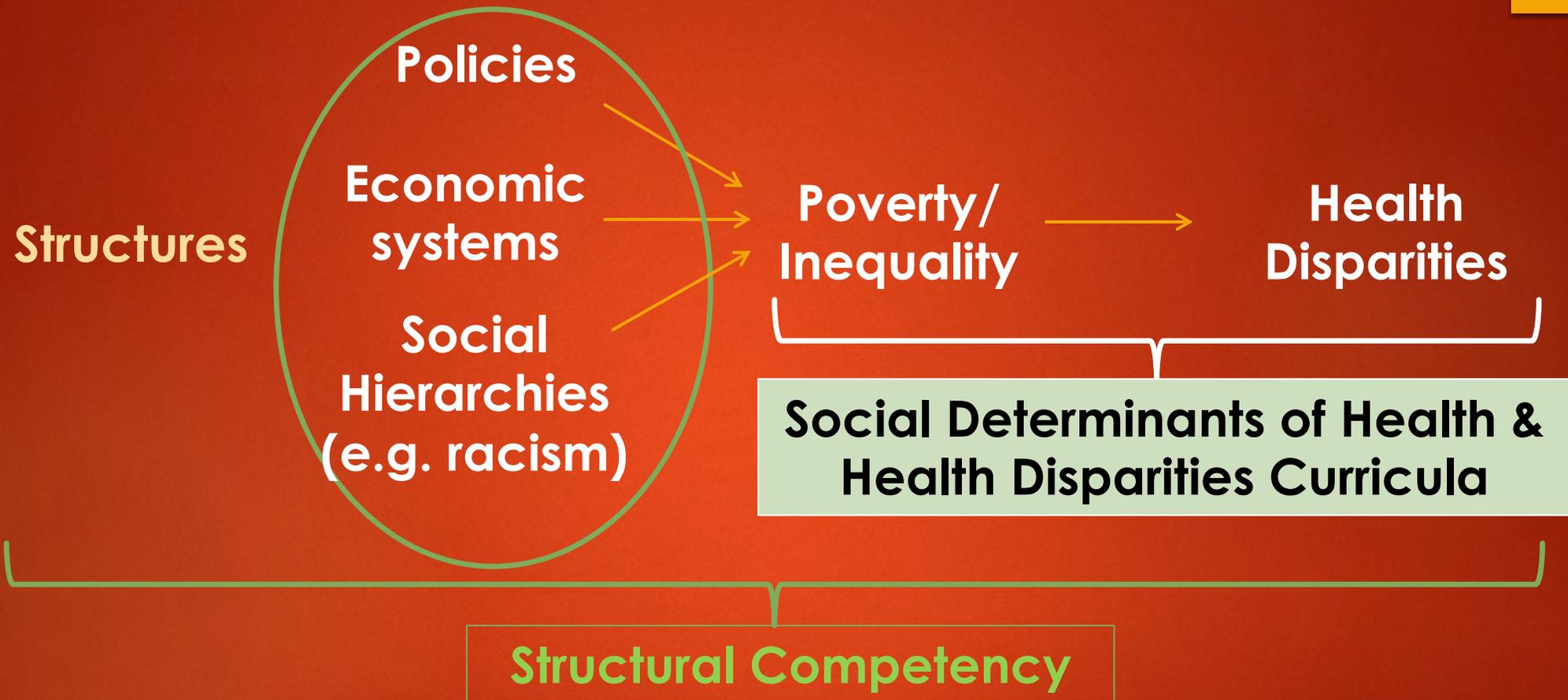
- Access to Health Care
- Access to Primary Care
- Health Literacy
- Provider Bias
- Cultural Competency

Education

- High School Graduation
- Enrollment in Higher Education
- Language and Literacy
- Early Childhood Education and Development

Social and Community Context

- Social Cohesion
- Civic Participation
- Discrimination
- Incarceration



“Structural determinants of the social determinants of health”



What is the role of the physician?

AMA CODE OF MEDICAL ETHICS

AMA PRINCIPLES OF MEDICAL ETHICS*

Preamble

The medical profession has long subscribed to a body of ethical statements developed primarily for the benefit of the patient. As a member of this profession, a physician must recognize responsibility to patients first and foremost, as well as to society, to other health professionals, and to self. The following Principles adopted by the American Medical Association are not laws, but standards of conduct that define the essentials of honorable behavior for the physician.

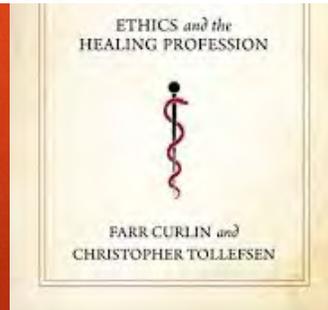
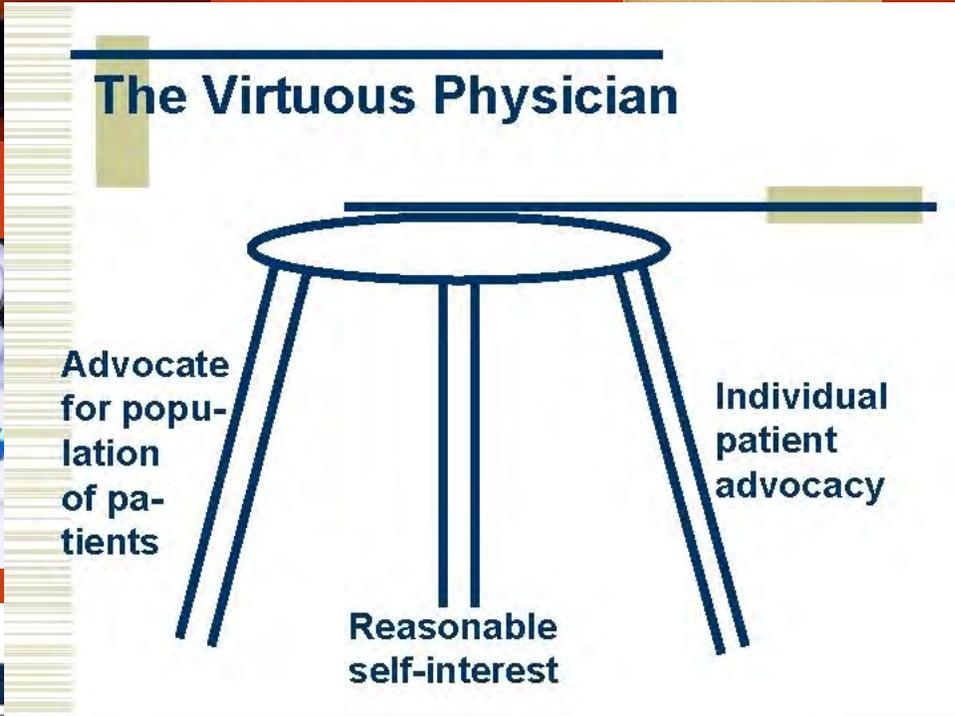
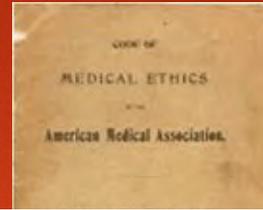
Principles of medical ethics

- I. A physician shall be dedicated to providing competent medical care, with compassion and respect for human dignity and rights.
- II. A physician shall uphold the standards of professionalism, be honest in all professional interactions, and strive to report physicians deficient in character or competence, or engaging in fraud or deception, to appropriate entities.
- III. A physician shall respect the law and also recognize a responsibility to seek changes in those requirements which are contrary to the best interests of the patient.
- IV. A physician shall respect the rights of patients, colleagues, and other health professionals, and shall safeguard patient confidences and privacy within the constraints of the law.
- V. A physician shall continue to study, apply, and advance scientific knowledge, maintain a commitment to medical education, make relevant information available to patients, colleagues, and the public, obtain consultation, and use the talents of other health professionals when indicated.
- VI. A physician shall, in the provision of appropriate patient care, except in emergencies, be free to choose whom to serve, with whom to associate, and the environment in which to provide medical care.
- VII. A physician shall recognize a responsibility to participate in activities contributing to the improvement of the community and the betterment of public health.
- VIII. A physician shall, while caring for a patient, regard responsibility to the patient as paramount.
- IX. A physician shall support access to medical care for all people.

* Revised June 2001.

AMA Code of Ethics

- ▶ VII. A physician shall recognize a responsibility to participate in activities contributing to the improvement of the community and the betterment of public health.
- ▶ “A Doctor's job doesn't stop at individual care.”



REVIEW: INCREASING AWARENESS AND EDUCATION ON HEALTH DISPARITIES FOR HEALTH CARE PROVIDERS

Shawna Nesbitt, MD, MS¹;
Rigo Estevan Palomarez, MS¹

The focus of this review is to highlight health care disparities and trends in several common diseases in selected populations while offering evidence-based approaches to mitigating health care disparities. Health care disparities cross many barriers and affect multiple populations and diseases. Ethnic minorities, the elderly, and those of lower socioeconomic status (SES) are more at-risk than others. However, many low SES Whites and higher SES racial minorities have poorer health than their racial or SES peers. Also, recent immigrant groups and Hispanics, in particular, maintain high health ratings. The so-called Hispanic Paradox provides an example of how culture and social background can be used to improve health outcomes. These groups have unique determinants of disparity that are based on a wide range of cultural and societal factors. Providing improved access to care and reducing the social determinants of disparity is crucial to improving public health. At the same time, for providers, increasing an understanding of the social determinants promotes better models of individualized care to encourage more equitable care. These approaches include increasing provider education on disparities encountered by different populations, practicing active listening skills, and utilizing a patient's cultural background to promote healthy behaviors. *Ethn Dis.* 2016;26(2):181-190; doi:10.18865/ed.26.2.181

Keywords: Disparities; Racial, Hispanic Paradox; Food Desert; Obesity; Hypertension

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INTRODUCTION

Health care disparities are differences in treatment, morbidity, mortality, and health care outcomes that exist between one group and others. These groups can be defined by a variety of descriptors that include, but are not limited to: race, sex, socioeconomic status (SES), sexual orientation, and immigration status.¹ Groups are not mutually exclusive; individuals can be part of multiple categories, and even move in and out of them, depending on their behaviors and self-identification (eg, smoking cessation, health insurance loss, or relocation to a different area). Although discussions of disparity commonly focus on race and disadvantaged groups, health care disparity can exist in any group of people. Determinants of disparity are the mechanisms through which health disparities occur and can include a person's type of work, income level, education, ethnicity, access to health care, and geographic location.² Simply put, they determine into which at-risk group a patient belongs to and to what extent they are affected by disparities. The focus of this review is to highlight health care disparities and trends in several common diseases in selected populations.

While it is not an exhaustive review of all populations, it will provide clinicians and educators with a new lens to view diverse patient populations.

DISPARITIES IN SELECTED DISEASES

Many diseases disproportionately affect racial minorities and the socioeconomically disadvantaged. Diseases such as diabetes, cardiovascular disease, stroke, hypertension, HIV/AIDS, cancer, asthma, and mental illnesses affect every ethnic and socioeconomic group, but the burden of these conditions among African American, Hispanic, and Native American communities, as well as those citizens of lower SES especially the elderly, is well-documented.³⁻⁷

Hypertension

Hypertension affects the health and wellness of more 67 million people in America, and contributes to the deaths of 348,000 every year. The prevalence of hypertension in US Whites is 32% and among Hispanics it is 27%.⁸ While the risks faced by Hispanics and Whites should not be ignored, African Americans have an overall hypertension prevalence of

Three Main Reasons for Racial Health Disparities

Longstanding discrimination in the institutions and structures of American society that has harmed and continues to harm Black and other minority communities making them less “healthy”.

Racism in society that wears away the bodies of Black people and others who are treated poorly

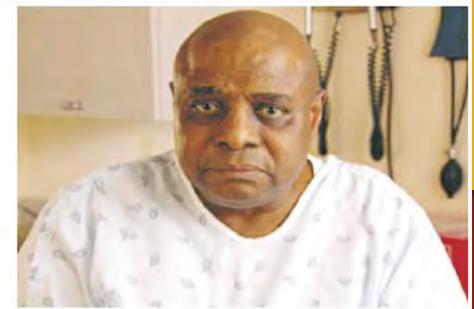
Bias in healthcare that creates a system of unequal treatment

The Effect of Race and Sex on Physicians' Recommendations for Cardiac Catheterization

“Men and whites were significantly more likely to be referred than women and blacks.”



A



B



E



F



What is bias?

A tendency or inclination that results in judgment without question.

**An automatic
response**

**A shortcut to
interact with our
world**



Harvard's Website: Implicit Bias Test

<https://implicit.harvard.edu/implicit/>

We have detected that you are using a touch device. Click here to take our touch studies.



Project Implicit®

PROJECT IMPLICIT SOCIAL ATTITUDES
Select from our available language/nation demonstration sites:

 United States (English) **GO!**

Cell Phone



Project Implicit®

The 2013 general audience book that fully explains the IAT 

PROJECT IMPLICIT SOCIAL ATTITUDES
Log in or register to find out your implicit associations about race, gender, sexual orientation, and other topics!

E-mail Address **LOGIN** **REGISTER**

Or, continue as a guest by selecting from our available language/nation demonstration sites:

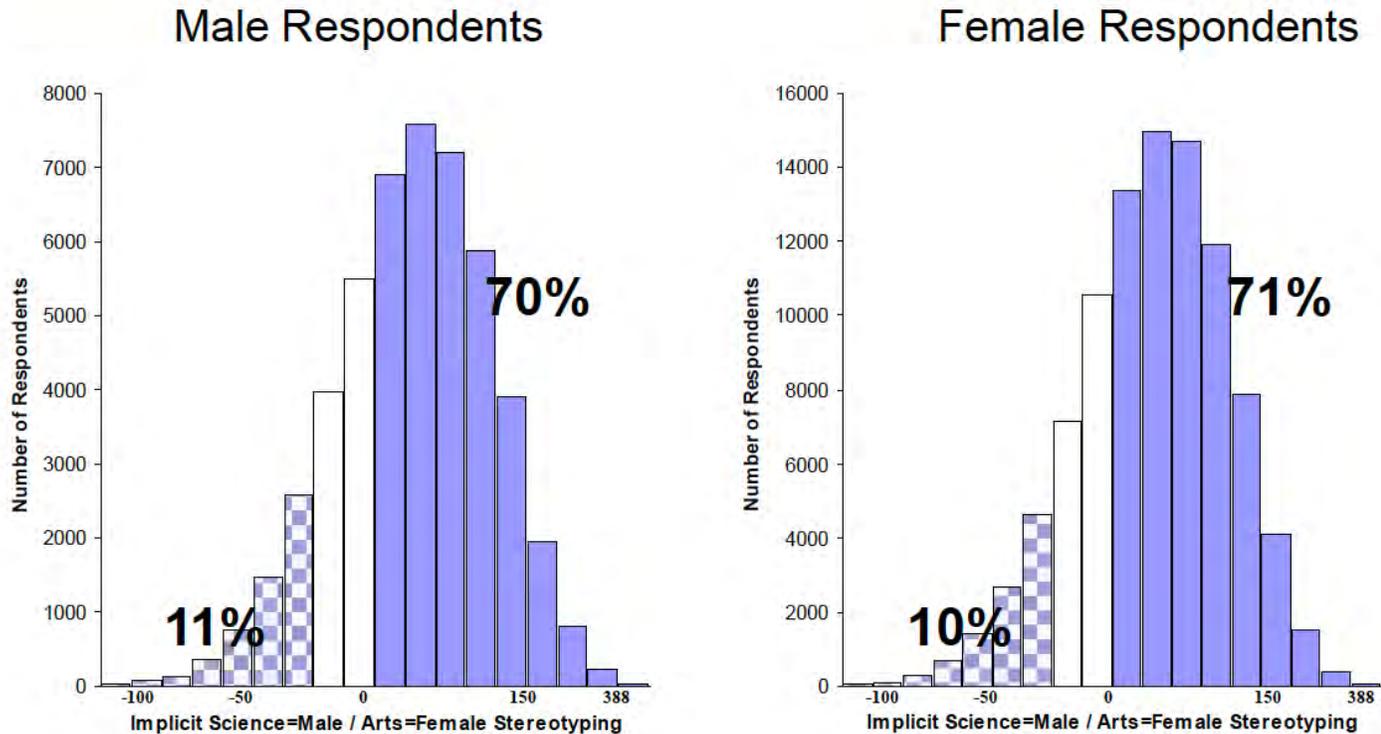
 United States (English) **GO!**

PROJECT IMPLICIT MENTAL HEALTH
Find out your implicit associations about self-esteem, anxiety, alcohol, and other topics! **GO!**

PROJECT IMPLICIT FEATURED TASK
Measure your implicit associations with U.S. presidential candidates **GO!**

Laptop

Implicit Gender-Science Stereotypes

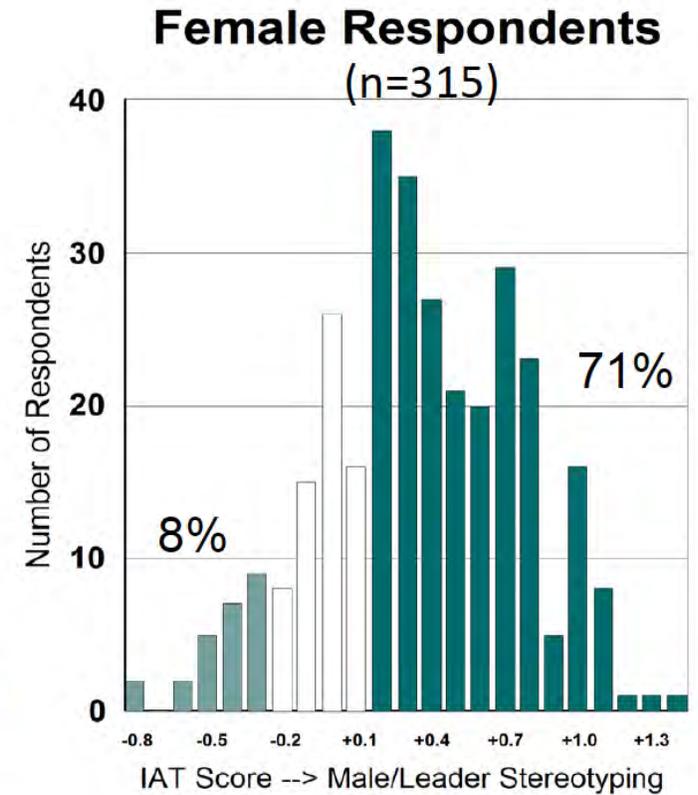
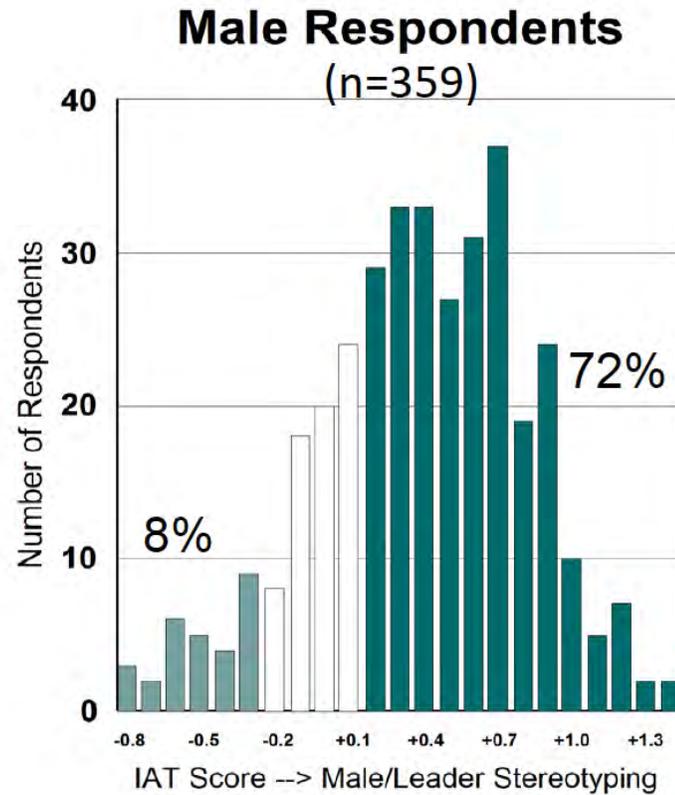


Nosek BA, Banaji MR & Greenwald AG, 2006

<http://implicit.harvard.edu/>

Both men and women associated men with science and women with the arts.

Both men and women associate men with leadership more than women.



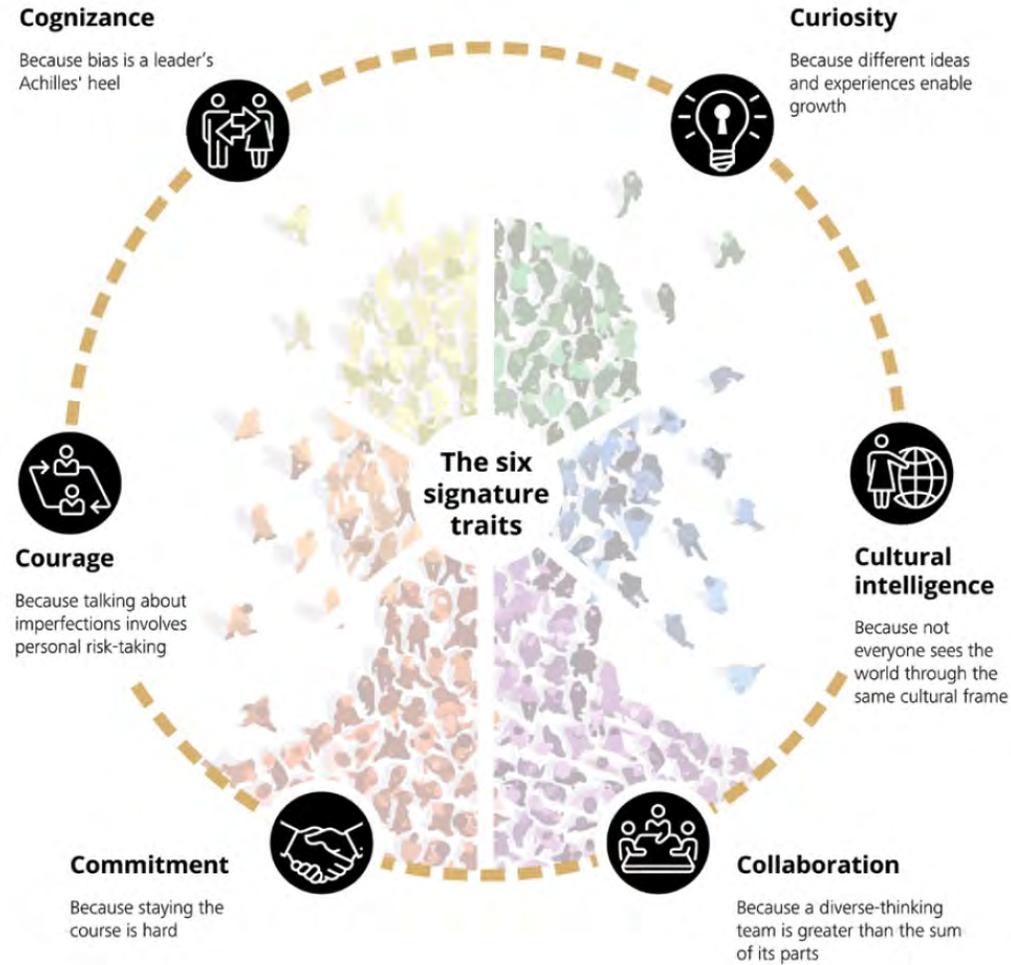
Gender and Leadership IAT Scores

IMPLICIT BIAS AMONG PHYSICIANS AND ITS PREDICTION OF THROMBOLYSIS DECISIONS FOR BLACK AND WHITE PATIENTS

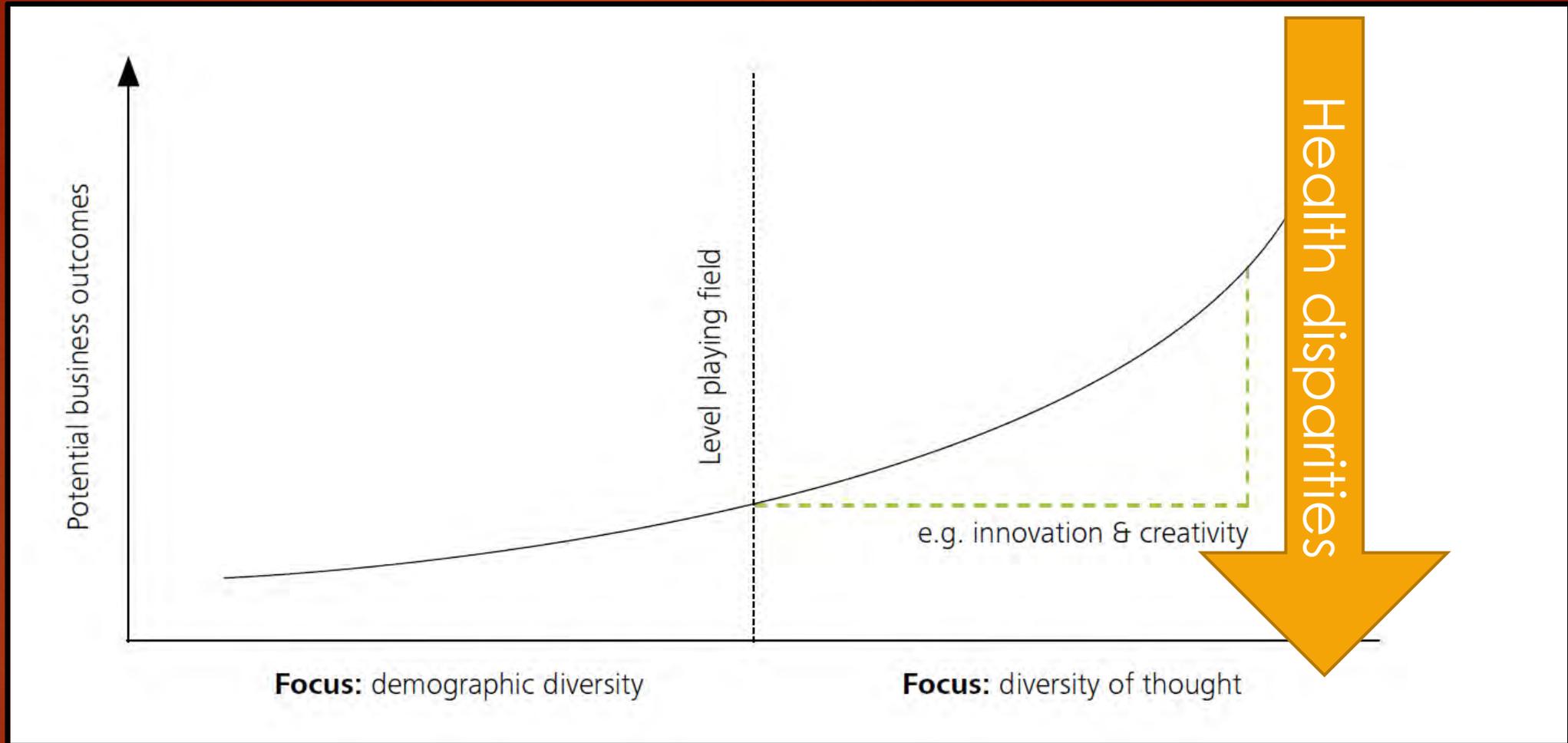


Green AR, Carney DR, et al. Journal Gen internal Medicine 2007;22(9):1231

FIGURE 5 | The six signature traits of an inclusive leader



Moving Beyond visible diversity; Connecting Diversity of thought to Engagement



Re-examining the business case for diversity: Deloitte point of view;
Human Capital Australia – September 2011

“It’s all about the perspective that you bring”

BLOOD PRESSURE IN DETROIT BLACKS

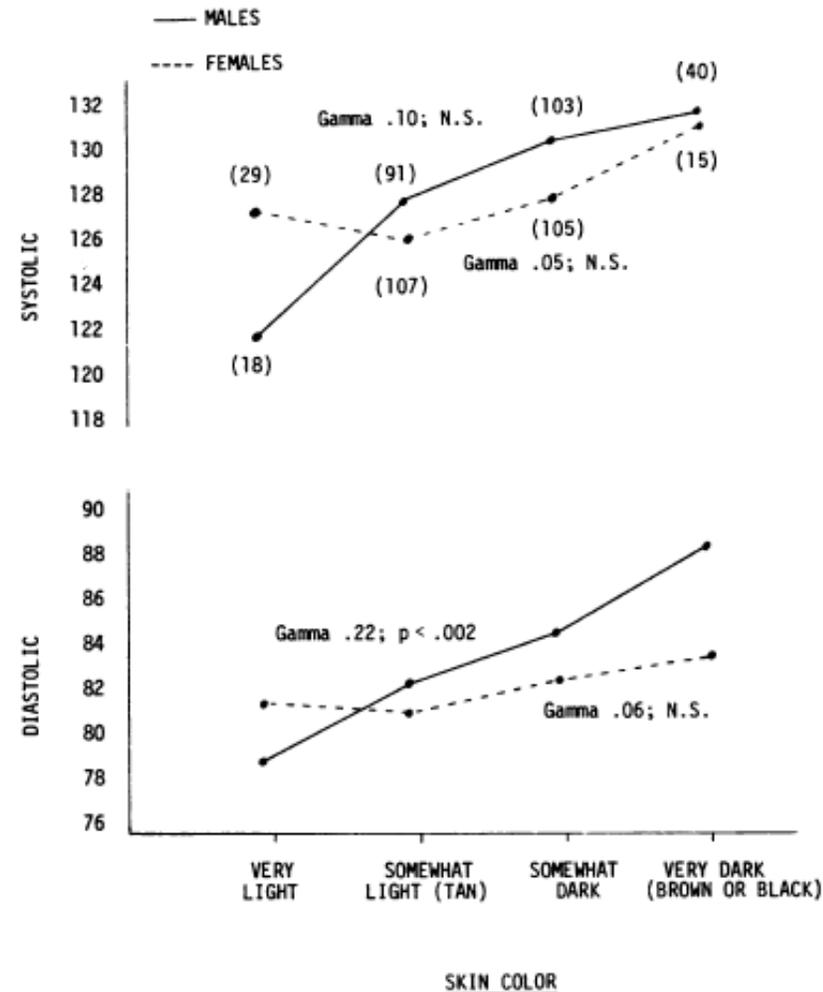
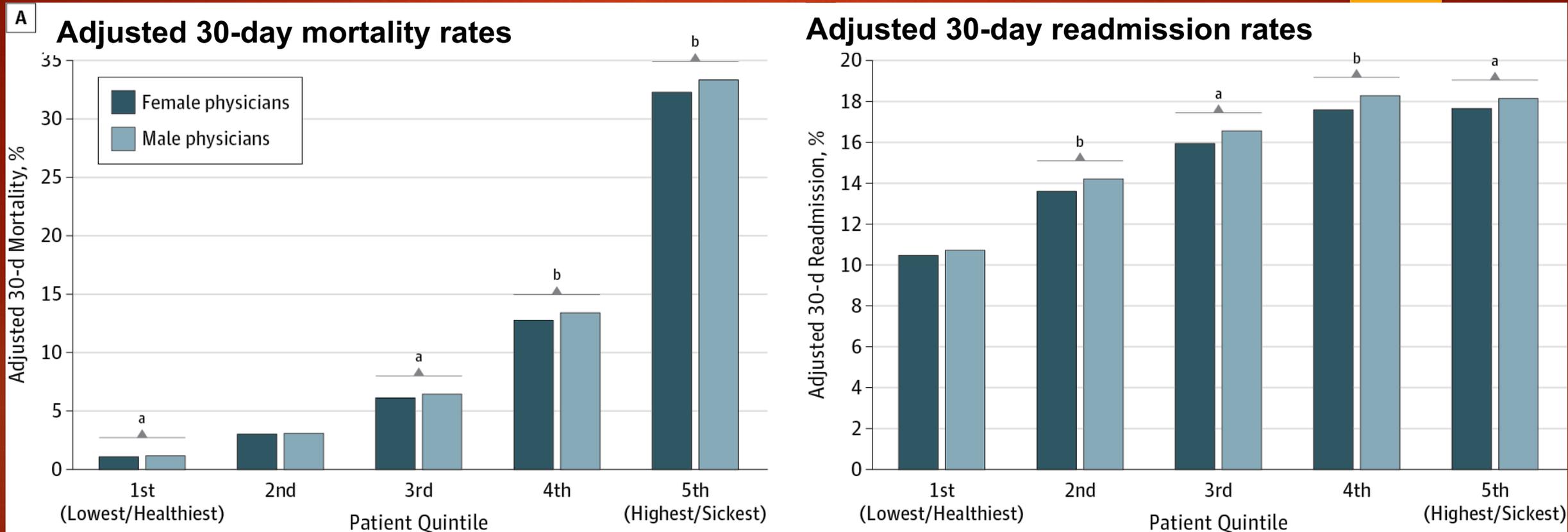


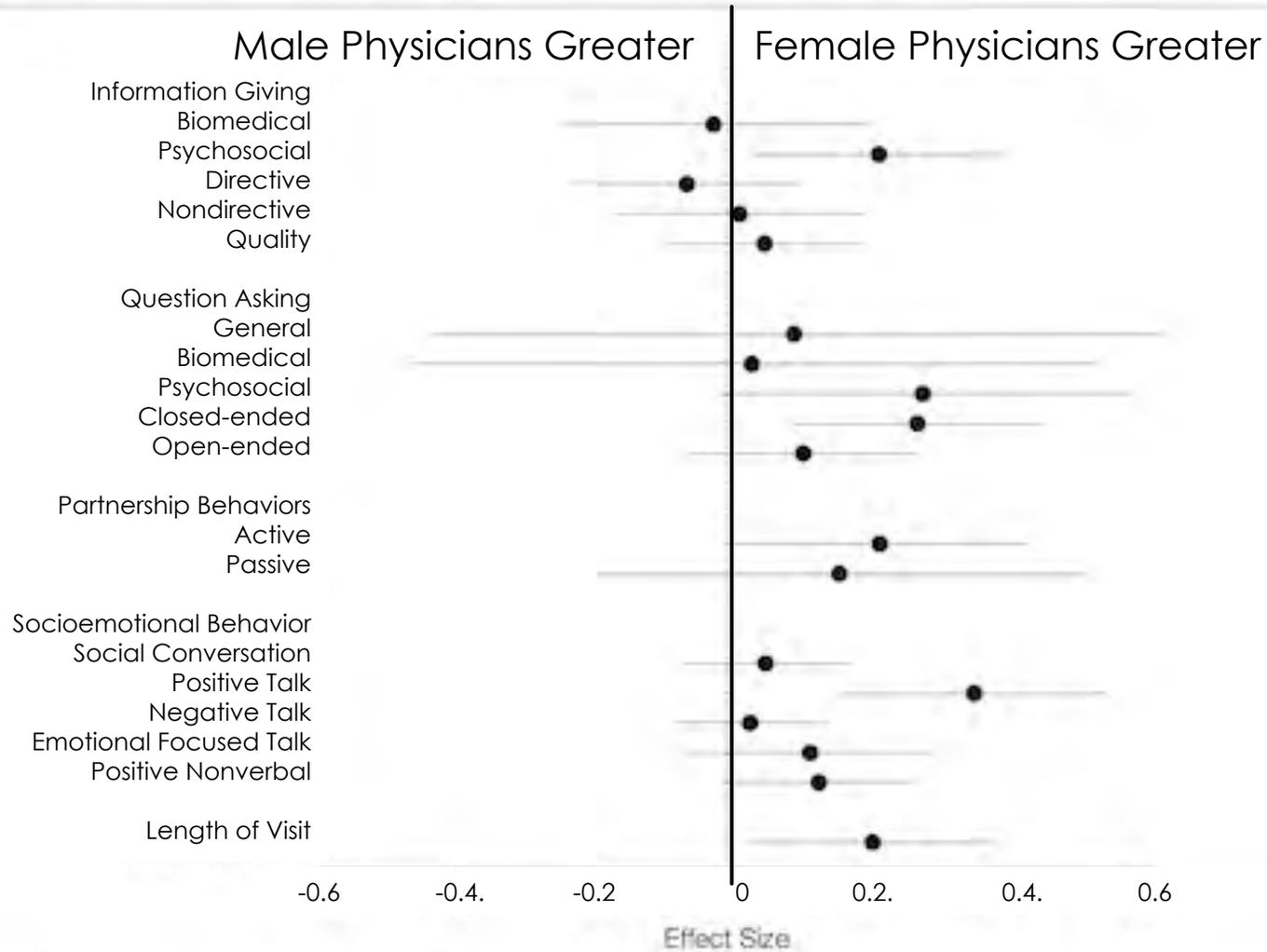
FIGURE 1—Blood Pressure (Adjusted for Age and Per Cent Overweight) and Skin Color Groups for Blacks, by Sex

Comparison of Hospital Mortality and Readmission Rates for Medicare Patients Treated by Male vs Female Physicians



Association Between Physician Sex and Patient Outcomes by Expected Mortality Rates A, Adjusted 30-day mortality rates. B, Adjusted 30-day readmission rates. Risk-adjusted mortality rates were calculated with additional adjustment for physician characteristics and with hospital fixed effects (model 3). Standard errors were clustered at the physician level.^aP < .05. ^bP < .001.

Estimated Pooled Gender Effect Sizes for Categories of Patient-Physician Communication



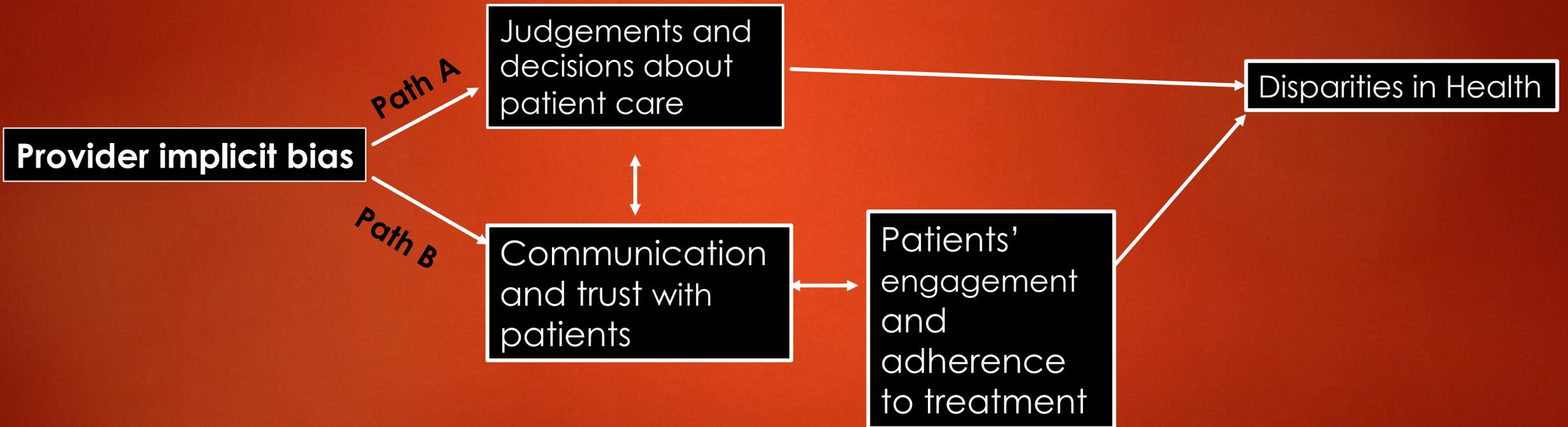
Error bars indicate 95% confidence intervals

Physician Gender Effects in Medical Communication

In the room where it happens...

IT MATTERS WHO' S THERE

Paths Modeling Provider Implicit Bias on Health Disparities



What is Cultural Competence?

- ▶ **Culture** refers to a body of beliefs, body of behavior, body of knowledge. (language, thoughts, customs, values)
- ▶ **Competence** is having the capacity to function effectively in the context of cultural beliefs, practices and needs of their patients and communities.
- ▶ **Cultural Competence** combines tenets of patient centered care with an understanding of the social and cultural influences that affect the quality of healthcare and treatment.

Cultural Competency Development is...

- A journey – not a goal
- A process of self-reflection
 - Understanding our own beliefs and biases
 - Knowing what we bring to clinical encounter or research experience



Alternative Concept to Cultural Competence: “Cultural Humility”

Primary Care residents with more instruction felt better prepared for cross cultural care

Predictor	Unprepared to provide Cross cultural care N (%)	M (SD)	Prepared to provide Cross cultural care N (%)	M (SD)	P-value
Total	463 (41)		672 (59)		
Gender:					
Male	157 (34)		272 (40)		
Female	306 (66)		400(60)		0.03
Race/Ethnicity:					
White	279 (61)		379 (56)		
Asian	94(21)		137 (21)		
URM	82 (18)		139 (21)		0.38
Location of Med School:					
US MD	334 (73)		510 (77)		
IMG	126 (27)		156 (23)		0.13
Access to role model in cross cultural care:					
Yes	269(58)		521 (78)		
No	192 (42)		149 (22)		<0.001
Specialty:					
Fam Med	103 (22)		201 (30)		
Internal Med	114 (25)		151 (22)		
Pediatrics	124 (27)		167 (25)		
OB/Gyn	122 (26)		153 (23)		0.04
Mean % for cross cultural case mix during residency		48.36 (19.7)		53.46 (18.6)	<0.001
Quantity of resident reported instruction in cross cultural care		2.37 (0.57)		2.85 (0.60)	<0.001

Educating Physicians & Providers on Cultural competence

Institute of Medicine Report on Unequal Treatment Recommendations for Education addressing disparities through training

- 1 Increase awareness of racial/ethnic disparities in health care.
- 2 Increase the proportion of underrepresented minorities in the health care workforce.
- 3 Integrate cross-cultural education into the training of all health care professionals
- 4 Incorporate teaching on the impact of race, ethnicity, and culture on clinical decision making.

Cultural Competence Training

Example:

Thom et al conducted an RCT on cultural competency training for Primary Care physicians on diabetes care.

3 training modules in ½ day or (3) 1 hour sessions

- ▶ Knowledge of cultural identification
- ▶ Communication skills
- ▶ Cultural brokering (negotiating)
- ▶ Understanding community resources

Outcome Measures:

Patient Reported Physician Cultural Competence (patient satisfaction, trust and BP, A1C)

Results:

Patient Satisfaction improved but no change in BP & A1C outcomes.

Professional Development Interventions: Mentoring

Example:

Wu et al evaluated the satisfaction and healthcare experiences of 250 parents of children in a large teaching hospital.

- ▶ The intervention was cultural education by Spanish Interpreters who introduced Latino culture and home remedies to physicians.
- ▶ They were cultural mentors for physicians on individual basis.

Results:

The use of in-person interpreter was better than phone interpreter BUT culturally educated physicians increased Spanish parents satisfaction even more.

Cultural Competence education and training for health and medical students

3 Main types of Education/training intervention strategies designed to improve the cultural competency of health professional students:

- 1) Integration of Cultural Competency into core or elective curriculum.
Content: Cultural differences, culturally competent healthcare, and health disparities.
Delivery: didactics, interactive, experiential case scenarios.
- 2) Cultural Immersion
- 3) Cultural Education and Training

Cultural Immersion

- ▶ One of the major challenges to reducing disparities relate to lack of understanding among healthcare professionals of the context vulnerable populations live in.
- ▶ Cultural immersion strategies include: education sessions, clinical placements and/or community experience.

Example Bennett et al.

4-8 week structured and educational clinical placement program on nursing students confidence in areas of primary healthcare delivery and culturally knowledgeable practice
5 day orientation

Extended clinical placement to establish Indigenous & non-Indigenous relationships

Pre & Post test given

3 months post placement interview shows 68% of nursing students intend to work in a rural location and 36% did so post graduation.

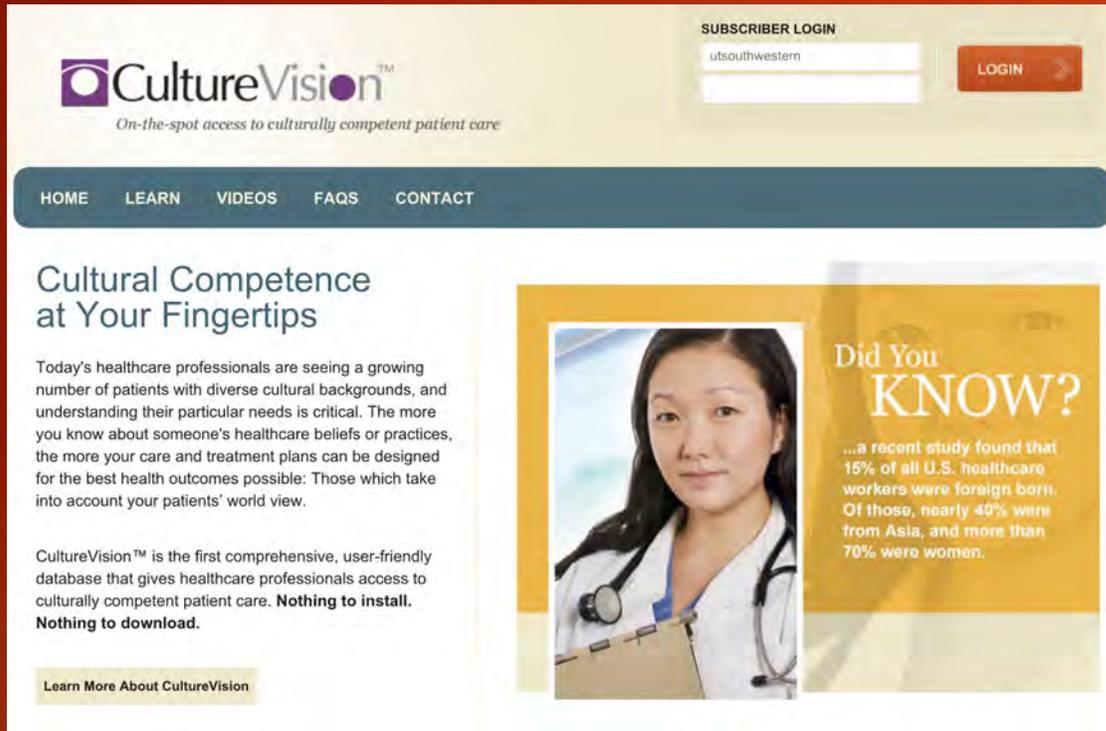
Bennett P et. al. Supporting rural/remote primary health care placement experiences increases undergraduate nurse confidence. Nurse Educ Today 2013;33(2):166-172

Cultural Educational Enhancement

Healthcare in Underserved Communities Elective Class

- ▶ Create educational experiences in the community: Immersion experience
- ▶ Discussions with leaders in the community
- ▶ Learn about the challenges that patients face on a daily basis
- ▶ Learn about the resources for patients in the local community





The screenshot shows the CultureVision website homepage. At the top left is the logo with the tagline "On-the-spot access to culturally competent patient care". To the right is a "SUBSCRIBER LOGIN" section with a text input field containing "utsouthwestern" and a "LOGIN" button. Below the logo is a navigation bar with links for HOME, LEARN, VIDEOS, FAQs, and CONTACT. The main content area features a section titled "Cultural Competence at Your Fingertips" with a paragraph of text and a "Learn More About CultureVision" button. To the right of this text is a graphic with a photo of a female doctor and a "Did You KNOW?" statistic: "...a recent study found that 15% of all U.S. healthcare workers were foreign born. Of those, nearly 40% were from Asia, and more than 70% were women."



How Does CultureVision® Work?

Let's say a patient of Hmong descent comes in for prenatal care and is nervous about labor and delivery. You want to know if there are any specific cultural traits or patterns that you should consider. What are the pertinent questions to ask? Are there any medications or diseases that are particularly relevant to this group? You simply log onto the CultureVision® website, click on to the "Hmong/Laotian" section, and click "Labor, Birth and Aftercare." Just that quickly you have the information you are looking for, and within minutes you are contributing to a better healthcare experience for your patient.

[Learn More About CultureVision® CultureVision.com](http://www.crculturevision.com)

Why CultureVision® ?

Today, people of color comprise about 30% of the U.S. population. By the year 2050, various ethnic groups and people of color in the U.S. will total about half (51.1%) of the population, according to the U.S. Census Bureau. Close to 90% of our total population growth in that time will have come from higher birth rates of people of color and immigrants from all over the world. It is imperative for healthcare providers to be attune to the needs of their diverse patients - That is the "Why?" behind CultureVision®.

Three Main Reasons for Racial Health Disparities

Longstanding discrimination in the institutions and structures of American society that has harmed and continues to harm Black and other minority communities making them less "healthy".

Racism in society that wears away the bodies of Black people and others who are treated poorly

Bias in healthcare that creates a system of unequal treatment

What is a health care disparity?

- ▶ “Health care disparity is not simply a difference in health outcomes by race or ethnicity, but a disproportionate difference attributable to variables other than access to care.”

Gomes C, McGuire TG. Identifying the source of racial and ethnic disparities. In: Smedley B, Stith AV, Nelson AR, eds. Unequal Treatment. National Academies Press: 2003

IS COVID-19 the Bellwether event for the U.S. to address healthcare disparities?



There has been clear excess of COVID-19 infection and death in African American communities in multiple states across the country.

The most effective prevention of COVID-19 was social distancing. Yet African Americans and poor individuals were far less able to do this... the absence of privilege.

What is the action plan?- A commitment is needed: Does the U.S. chronicle this disparity along with many others and go back to normal?

Will we declare that a civil society will no longer accept disproportionate suffering?



“ Calling all doctors

”

The time to act is now

A high-angle photograph of a large group of people, mostly young adults, lying on their backs on a grey floor. They are holding various protest signs. The signs include messages such as "First. DO NO HARM", "ALL LIVES MATTER", "SILENCE DOES HARM", "WHITTIE GOATS BLACK LIVES", and "YOUR POC WILL NOT SKIP THIS GENERATION". The people are dressed in casual attire, including white lab coats, blue jeans, and various jackets. The overall scene suggests a protest or a public demonstration. A solid yellow rectangle is visible in the top right corner of the image.

#BlackLivesMatter

Is there Racism in medicine?

Hidden in Plain Sight- Reconsidering the Use of Race in Clinical Algorithms



Table 1. Examples of Race Correction in Clinical Medicine.^a

Tool and Clinical Utility	Input Variables	Use of Race	Equity Concern
Cardiology The American Heart Association's Get with the Guidelines-Heart Failure ⁹ (https://www.mdcalc.com/gwtg-heart-failure-risk-score) <i>Predicts in-hospital mortality in patients with acute heart failure. Clinicians are advised to use this risk stratification to guide decisions regarding initiating medical therapy.</i>	Systolic blood pressure Blood urea nitrogen Sodium Age Heart rate History of COPD Race: black or nonblack	Adds 3 points to the risk score if the patient is identified as nonblack. This addition increases the estimated probability of	The original study envisioned using this score to "increase the use of recommended medical therapy in high-risk patients and
Cardiac surgery The Society of Thoracic Surgeons Short Term Risk Calculator ¹⁰ (http://riskcalc.sts.org/stswebriskcalc/calculate) <i>Calculates a patient's risks of complications and death with the most common cardiac surgeries. Considers >60 variables, some of which are listed here.</i>	Operation type Age and sex Race: black/African American, Asian, American Indian/Alaskan Native, Native Hawaiian/Pacific Islander, or "Hispanic, Latino or Spanish ethnicity"; white race is the default setting BMI	Obstetrics Vaginal Birth after Cesarean (VBAC) Risk Calculator ^{11,14} (https://mfmunetwork.bsc.gwu.edu/PublicBSC/MFMU/VGBirthCalc/vagbirth.html) <i>Estimates the probability of successful vaginal birth after prior cesarean section. Clinicians can use this estimate to counsel people who have to decide whether to attempt a trial of labor rather than undergo a repeat cesarean section.</i>	The African-American and Hispanic correction factors subtract from the estimated success rate for any person identified as black or Hispanic. The decrement for black (0.671) or Hispanic (0.680) is almost as large as the benefit from prior vaginal delivery (0.888) or prior VBAC (1.003).
Nephrology Estimated glomerular filtration rate (eGFR) MDRD and CKD-EPI equations ¹¹ (https://ukidney.com/nephrology-resources/egfr-calculator) <i>Estimates glomerular filtration rate on the basis of a measurement of serum creatinine.</i>	Serum creatinine Age and sex Race: black vs. white or other	Urology STONE Score ^{13,16} <i>Predicts the risk of a ureteral stone in patients who present with flank pain</i>	Produces a score on a 13-point scale, with a higher score indicating a higher risk of
Organ Procurement and Transplantation Network: Kidney Donor Risk Index (KDRI) ¹² (https://optn.transplant.hrsa.gov/resources/allocation-calculators/kdri-calculator/) <i>Estimates predicted risk of donor kidney graft failure, which is used to predict viability of potential kidney donor. †</i>	Age Hypertension, diabetes Serum creatinine level Cause of death (e.g., cerebrovascular accident) Donation after cardiac death Hepatitis C Height and weight HLA matching Cold ischemia En bloc transplantation Double kidney transplantation Race: African American	Urinary tract infection (UTI) calculator ¹⁷ (https://uticalc.pitt.edu/) <i>Estimates the risk of UTI in children 2–23 mo of age to guide decisions about when to pursue urine testing for definitive diagnosis</i>	By systematically reporting lower risk for black patients than for all nonblack patients, this
		Oncology Rectal Cancer Survival Calculator ¹⁸ (http://www3.mdanderson.org/app/medcalc/index.cfm?pagename=rectumcancer) <i>Estimates conditional survival 1–5 yr after diagnosis with rectal cancer</i>	
		National Cancer Institute Breast Cancer Risk Assessment Tool (https://bcrisktool.cancer.gov/calculator.html) <i>Estimates 5-yr and lifetime risk of developing breast cancer, for women without prior history of breast cancer, DCIS, or LCIS.</i>	

Table 1. (Continued.)

Tool and Clinical Utility	Input Variables	Use of Race	Equity Concern
Breast Cancer Surveillance Consortium Risk Calculator ¹⁹ (https://tools.bcscc.org/BCYearRisk/calculator.htm) <i>Estimates 5- and 10-yr risk of developing breast cancer in women with no previous diagnosis of breast cancer, DCIS, prior breast augmentation, or prior mastectomy</i>	Age Race/ethnicity: white, black, Asian, Native American, other/multiple races, unknown BIRADS breast density score First-degree relative with breast cancer Pathology results from prior biopsies	The coefficients rank the race/ethnicity categories in the following descending order of risk: white, American Indian, black, Hispanic, Asian.	Returns lower risk estimates for all nonwhite race/ethnicity categories, potentially reducing the likelihood of close surveillance in these patients.
Endocrinology Osteoporosis Risk SCORE (Simple Calculated Osteoporosis Risk Estimation) ²⁰ (https://www.mdapp.co/osteoporosis-risk-score-calculator-316/) <i>Determines whether a woman is at low, moderate, or high risk for low bone density in order to guide decisions about screening with DXA scan</i>	Rheumatoid arthritis History of fracture Age Estrogen use Weight Race: black or not black	Assigns 5 additional points (maximum score of 50, indicating highest risk) if the patient is identified as nonblack	By systematically lowering the estimated risk of osteoporosis in black patients, SCORE may discourage clinicians from pursuing further evaluation (e.g., DXA scan) in black patients, potentially delaying diagnosis and intervention.
Fracture Risk Assessment Tool (FRAX) ²¹ (https://www.sheffield.ac.uk/FRAX/tool.aspx) <i>Estimates 10-yr risk of a hip fracture or other major osteoporotic fracture on the basis of patient demographics and risk-factor profile. Calculators are country-specific. †</i>	Age and sex Weight and height Previous fracture Parent who had a hip fracture Current smoking Glucocorticoid use Rheumatoid arthritis Secondary osteoporosis Alcohol use, ≥3 drinks per day Femoral neck bone mineral density	The U.S. calculator returns a lower fracture risk if a female patient is identified as black (by a factor of 0.43), Asian (0.50), or Hispanic (0.53). Estimates are not provided for Native American patients or for multiracial patients.	The calculator reports 10-yr risk of major osteoporotic fracture for black women as less than half that for white women with identical risk factors. For Asian and Hispanic women, risk is estimated at about half that for white women. This lower risk reported for nonwhite women may delay intervention with osteoporosis therapy.
Pulmonology Pulmonary-function tests ²² <i>Uses spirometry to measure lung volume and the rate of flow through airways in order to diagnose and monitor pulmonary disease</i>	Age and sex Height Race/ethnicity	In the U.S., spirometers use correction factors for persons labeled as black (10–15%) or Asian (4–6%).	Inaccurate estimates of lung function may result in the misclassification of disease severity and impairment for racial/ethnic minorities (e.g., in asthma and COPD). ²³

AMA implements 3 new policies November 2020

Declares Racism as a Public Health Threat

- Acknowledges structural, systemic, and interpersonal forms of racism and bias exist across all the social determinants of health and research

Elimination of Race as a Proxy for Ancestry, Genetics, and Biology in Medical Education, Research and Clinical Practice

- Race is distinct from ethnicity, genetic ancestry, or biology

Decry Racial essentialism in Medicine

- AMA will collaborate with minority organizations & content experts to identify and address aspects of medical education and board exams, assessments and practices that reinforce institutional and structural racism.

Summary

- ▶ Health disparities are pervasive and persistent nationally and locally.
- ▶ Health disparities are rooted in widespread institutionalized and structural racism. This is based on longstanding policies and practices.
- ▶ The practice of medicine also has inherent health disparities
- ▶ Physicians are charged with the duty of self reflection of practices and biases to improve the care of our patients
- ▶ Physicians must become educated about the living conditions of the patients we serve.
- ▶ Our role begins outside of the hospital and clinic and our voices are critical to changing policy to address the ills of our community

Sir William Osler

“On race, nationality and creed” 1906

“Distinctions of race, nationality, color, and creed are unknown within the portals of the Temple of Aesculapius. Dare we dream that this harmony and cohesion so rapidly developing in medicine, obliterating the strongest lines of division, knowing no tie of loyalty, but loyalty to truth. -Dare we hope, I say, that in the wider range of human affairs a similar solidarity may ultimately be reached.”

Aequinimitas : with other addresses to medical students, nurses and practitioners of medicine.
By William Osler 1906

