Social Determinants of Health and the Need for Equity-Oriented Primary Care Services

By the Numbers within NCCHCA

Impact 2022

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Social Determinants of Health

• The conditions of life in which people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks.

"The social conditions in which people live have a dramatic impact on their health"

Examples of SDOH

- Poverty, poor schooling, food insecurity, housing conditions, deficient sanitation in early childhood, exposure to toxic agents
- Racism, discrimination, relative social standing, social exclusion & persistent marginalization and lack of opportunity to develop useful emotional & occupational skills needed in modern society

Urban Modernization is a New Form of Human Settlement

In Two Centuries, our Species are City Dwellers working in the interest of trade and commerce

.....And with comes the challenges of a capitalistic society

.....Over 50 percent of premature morbidity and mortality is caused by behavioral and social determinants of health such as smoking, diet, exercise, and socioeconomic status.

Determinants are Multifactorial

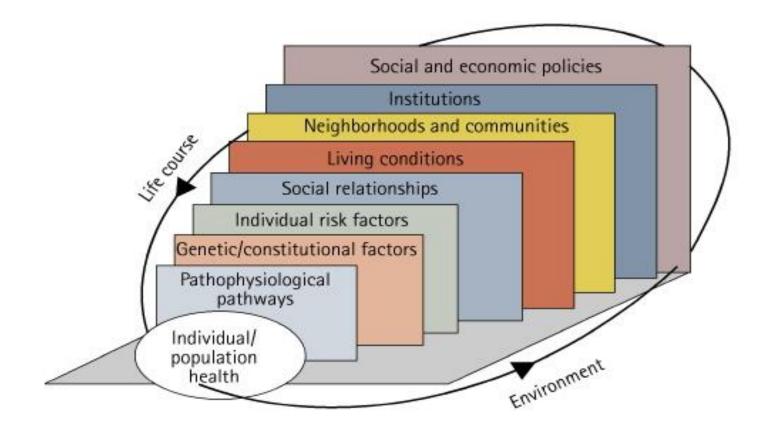
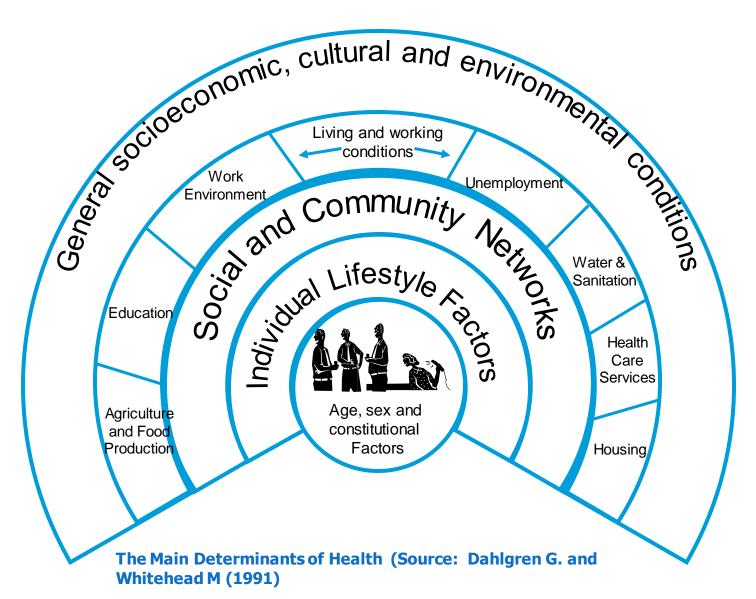


Figure 2. Upstream and downstream determinants of population health.

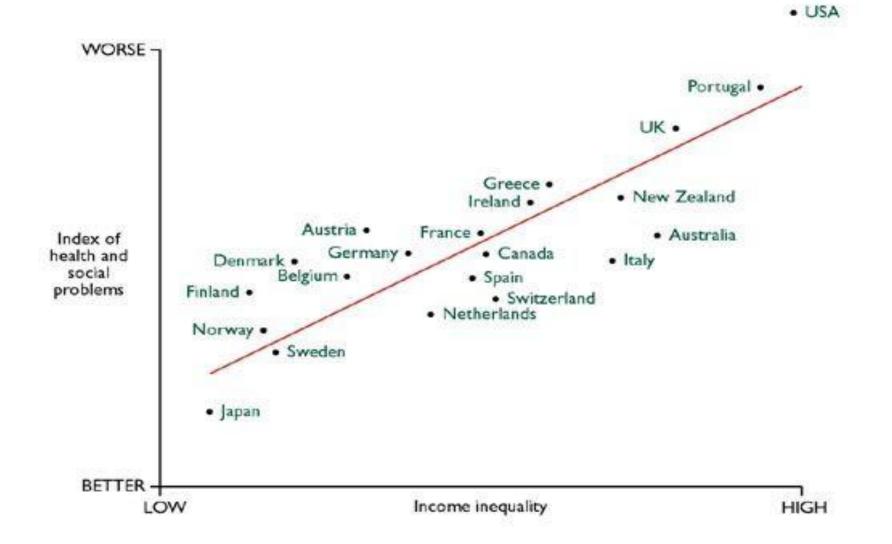
Levels of Determinants



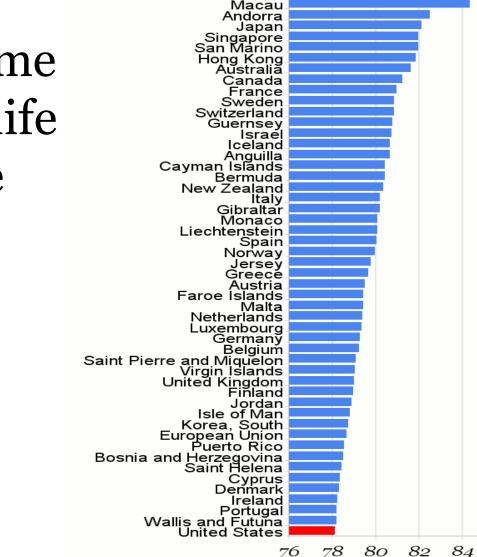
Health Follows a Social Gradient

- Economic and social factors influence differences in health status in both individual and population health
 - Factors of inequality influence health, disease, and mortality rates substantially
- These dynamics influence patient behavior as well as provider behavior toward patient

How does the US fair?



Life Expectancy at Birth



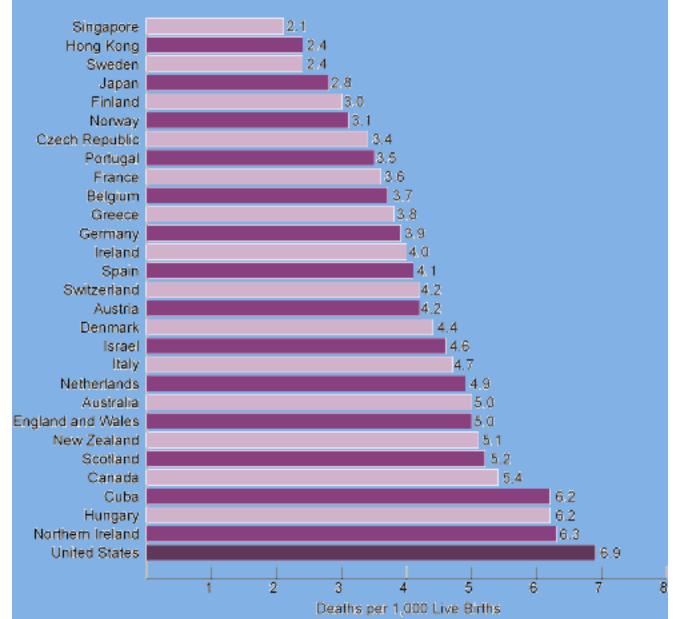
 Result of income inequality on life and health are catastrophic

Badmouth.net

86

International Infant Mortality Rates, Selected Countries, 2005

Source: Centers for Disease Control and Prevention, National Center for Health Statistics



THE SOCIAL DETERMINANTS: 10 TIPS FOR BETTER HEALTH

1. Don't be poor.

- If you can, stop. If you can't, try not to be poor for long.

2. Don't have poor parents.

3. Own a car.

- 4. Don't work in a stressful, low-paid manual job.
- 5. Don't live in damp, low-quality housing.
- 6. Be able to afford to go on a vacation and sunbathe.
- 7. Practice not losing your job and don't become unemployed.

8. Make sure you have access to benefits, particularly if you are unemployed, retired, or sick or disabled.

9. Don't live next to a busy major road or near a polluting factory.10. Learn how to fill in the complex housing benefit/shelter application forms before you become homeless and destitute.

• Source: Centre for Social Justice, Social Determinants Across the Lifespan

[•] The Centre for Social Justice, a Canadian advocacy organization with its roots in the Jesuit social justice movement, offers the following tips for better health, as a complement to the more traditional tips to stop smoking, eat more fruits and vegetables, and wear sunblock.

Primary Social Factors Determining Disease

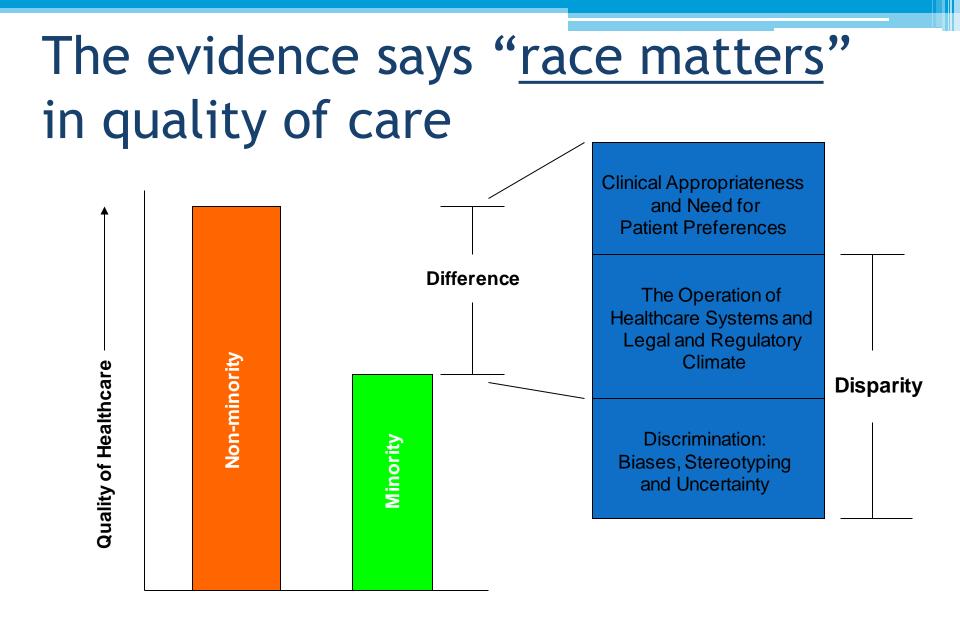
- Race and ethnicity
- Income and employment
- Social standing

Access

.....All elements are related to social marginalization by other humans

Social Determinants

Racial Inequality



Social Justice

 "Of all the forms of inequality, injustice in health care is the most shocking and inhumane."
 Martin Luther King Jr.

IOM Summary Report: Unequal Treatment

- Racial and ethnic disparities in health care occur in the context of broader historic and contemporary social and economic inequality
- Evidence of persistent racial and ethnic discrimination in many sectors of America
- Many sources including health systems, health care providers, patients, and administrators – contribute to racial and ethnic disparities in health care.

Race as an Influencer

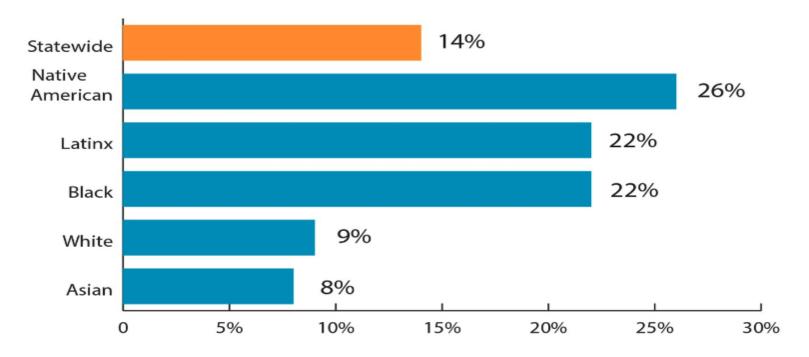
 Race is a primary influencer in all other social determinants

Plays a role in all societal institutions

 Direct link between race and lower SEC, higher rate of food scarcity, poor housing, higher rates of unemployment

People of color in N.C. experience disproportionately high poverty rates

POVERTY RATE BY RACE AND ETHNICITY IN N.C., 2019



Source: American Community Survey one-year estimates, Table B17001

Social Determinants

Income and Employment

Income Affects Quality of Life

- High personal debt leads to poorer health outcomes
 - More likely to experience ulcers, digestive tract issues, severe anxiety, headaches and depression

Low Income

- Lack of income influences ability to:
 - Access to health care
 - Purchase healthy food
 - Live in decent housing
 - Attend a good school
 - Access recreation

Employment & Income Determined by Educational Attainment

• High School Diploma:

- Unemployment Rate 4.5%
- Median weekly earning \$626

Bachelors Degree:

- Unemployment rate 3.8%
- Median weekly earnings \$1038
- Doctoral Degree:
 - Unemployment rate 1.9%
 - Median weekly incomes \$1550

Income Inequality

- Health is linked to income
- Income is linked to employment and opportunity

Employment Realities

- Employed people have better health than the unemployed
- Well paid jobs and poorly compensated jobs have drastically different outcomes

Employment Policies

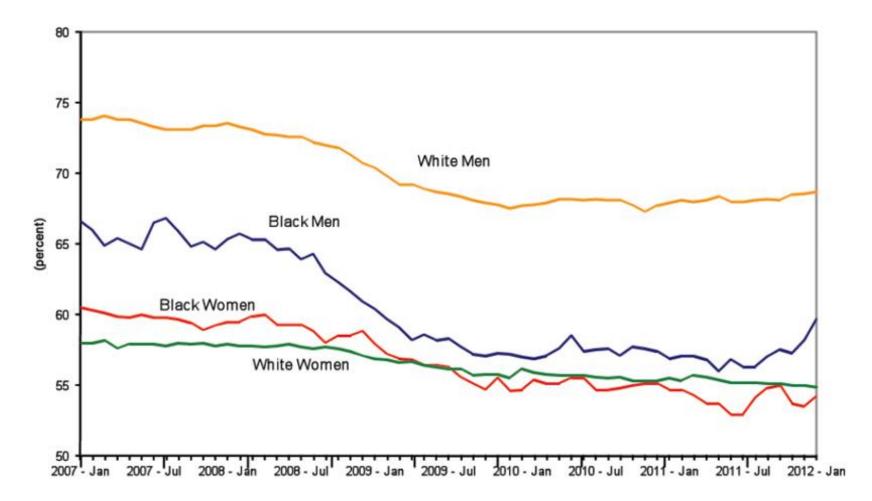
- Threat of unemployment and job insecurity can affect health as well
 - People with low power have low locus of control
- Stress (job threats) linked to increases in blood pressure/heart disease

Demographic of Labor Force

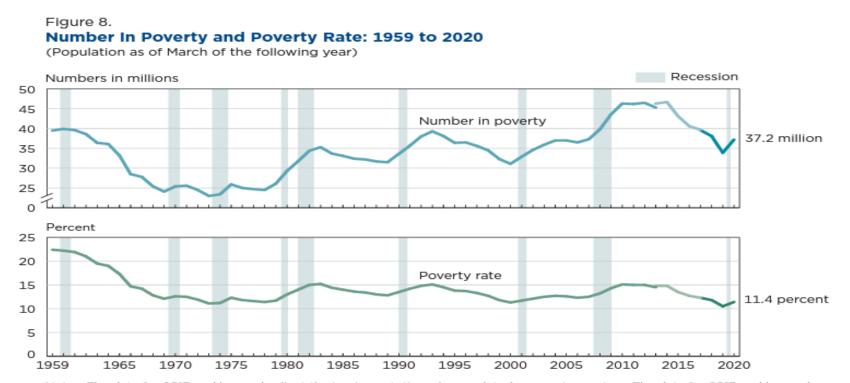
More females in workforce, in college/university
Lack of childcare
Lack of parental support/supervision
Pandemic laid bare this ugly truth

Effects of employment policies on health and health disparities, Jody Heymann, MD, 2006

Employment Rates per Race



Number of People in Poverty 1959-2020

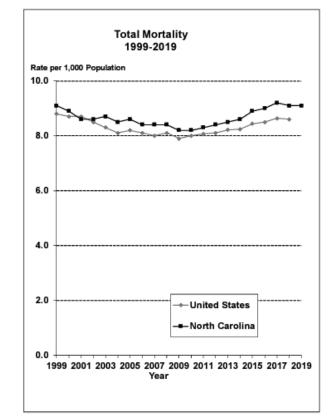


Notes: The data for 2017 and beyond reflect the implementation of an updated processing system. The data for 2013 and beyond reflect the implementation of the redesigned income questions. Refer to Table B-4 for historical footnotes. The data points are placed at the midpoints of the respective years. Information on recessions is available in Appendix A. Information on confidentiality protection, sampling error, nonsampling error, and definitions is available at https://www2.census.gov/programs-surveys/cps/techdocs/cpsmar21.pdf>.

Source: U.S. Census Bureau, Current Population Survey, 1960 to 2021 Annual Social and Economic Supplements (CPS ASEC).

Poverty on morbidity & mortality Almost 30% of those living in poverty report poor to fair health.

13.3a Based on self-reported health status, the percentage of people in fair or poor health is highest among the poor and near-poor Percentage of individuals (March 2009) 80% Fair or poor Good Excellent or very good 70 60 50 40 30 20 10 0 100-199% Below poverty 200% or more



Family income as a percentage of poverty (2008)

Social Determinants

Social Standing and Access

Social Economic Status

- Those lower on the socioeconomic pyramid exposed to more formidable and ongoing stressors
 - Job insecurity
 - Unpaid bills
 - Inadequate childcare
 - Underperforming schools
 - Dangerous or toxic living conditions

Access

- Income and race directly tied to lack of access to:
 - Healthcare
 - Housing
 - Healthy food

Access to Healthcare

- U.S. healthcare expenditures are 2x more per capita of other developed nations → Yet, outcomes are poorer
- Healthcare and health insurance are out of the reach for many

Papanicolas, I., Woskie, L. R., & Jha, A. K. (2018). Health care spending in the United States and other high-income countries. *Jama*, *319*(10), 1024-103

• In 2009 the number of uninsured Americans increased from 46.3 million to 50.7 million



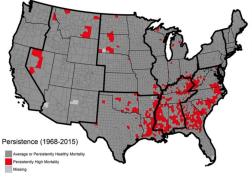
Health Center Name	City	▼ State	Patients at or below 200% of poverty	Patients at or below 100% of poverty	Uninsured 🔻 Me
ADVANCE COMMUNITY HEALTH	RALEIGH	NC	96.21	% 66.639	38.06%
ANSON REGIONAL MEDICAL SERVICES	WADESBORO	NC	72.52	% 44.739	10.35%
APPALACHIAN DISTRICT HEALTH DEPARTMENT	SPARTA	NC	97.09	% 81.649	53.61%
APPALACHIAN MOUNTAIN COMMUNITY HEALTH CENTERS.	ASHEVILLE	NC	96.84	% 75.819	33.45%
BAKERSVILLE COMMUNITY MEDICAL CLINIC, INC.	BAKERSVILLE	NC	80.23	% 46.449	23.65%
BERTIE COUNTY RURAL HEALTH ASSOCIATION	WINDSOR	NC	89.25	% 48.369	10.42%
BLUE RIDGE COMMUNITY HEALTH SERVICES, INC.	HENDERSONVLLE	NC	92.70	% 62.039	48.61%
CABARRUS ROWAN COMMUNITY HEALTH CENTERS, INC	CONCORD	NC	80.68	% 60.509	49.48%

Forgo Medical Care to Save Cost

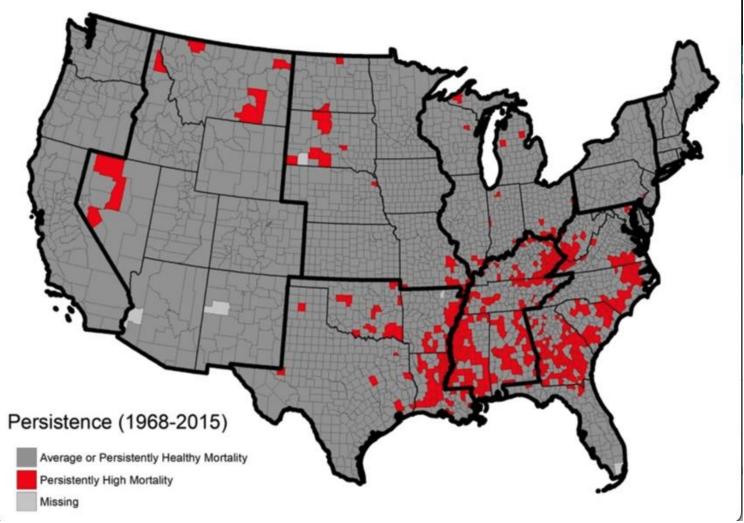
- Many Americans are skipping medical care to save costs
 - Unfilled prescriptions
 - Taking less medicine than prescribed
 - Skipping a medical test or procedure

Rural Area Access

- 75% of high mortality counties are rural
- The persistence of mortality is heavily concentrated in the South (88%)
- High mortality counties <3% in other census divisions



High Mortality in Rural Areas



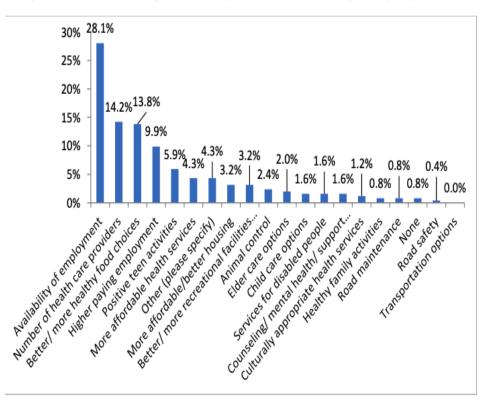
Gates County, NC

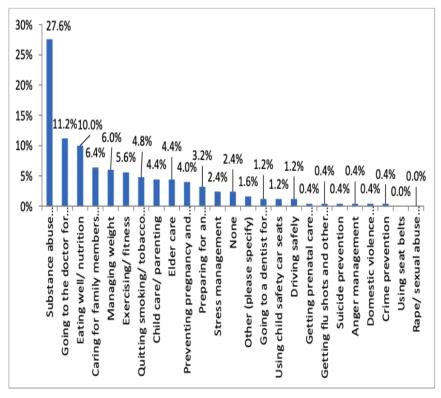
- Gates County continues to see mortality rates higher than the national average
- Age-adjusted death rate due to diabetes between 2012-2016 was 36.4 (*per 100,000*) compared to a U.S. average of 21.1

Gates County

Figure 43. Services Needing the Most Improvement, as Ranked by Survey Respondents

Figure 44. Health Behaviors that Residents Need More Information About, As Ranked by Survey Respondents





Access to Affordable Housing

- Housing quality—safety issues:
 - Mold, lead, noise, fires, falls
- Physical neighborhood attributes:
 Lack of bike trails, green space, public
 - transportation
- Social and community attributes:
 - Segregation and concentration of poverty

Housing Matters

- Unaffordable housing causes:
 - Financial stress
 - Reallocation of finances
 - Crowding
 - Pandemic evictions

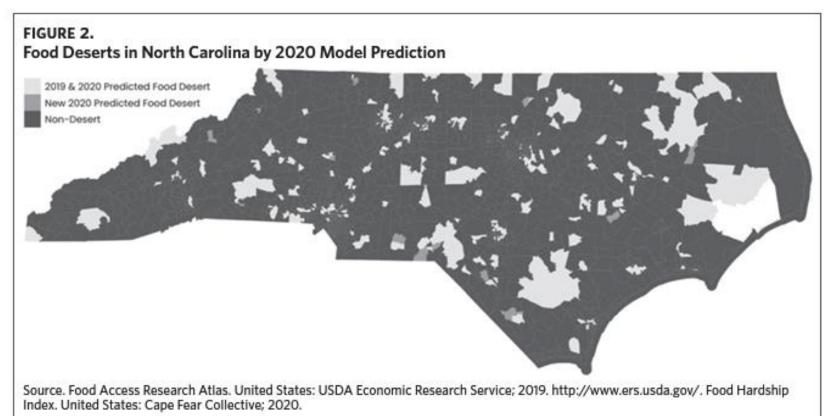
Access to Healthy Foods

- Human and environmental health go hand in hand
- What matters is not just "what" is eaten, but "how" it is produced and distributed

A Look Inside Food Desserts, <u>http://www.cdc.gov/Features/fooddeserts/index.html</u> Learning democracy through food justice movements, Charles Z. Levkoe, Agriculture and Human Values (2006) 23:89–98

Food Deserts

• Lack of access to affordable healthy food choices

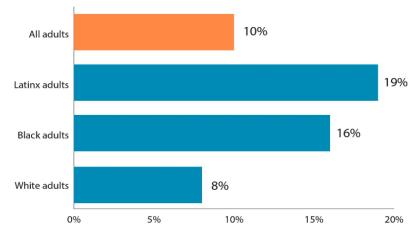


NC Food Desert

 Limited food budgets make it a struggle to consume recommended daily value of essential nutrients

Black & Latinx North Carolinians more likely to be food insecure

SHARE OF ADULTS IN NORTH CAROLINA REPORTING THEIR HOUSEHOLD DID NOT HAVE ENOUGH TO EAT IN THE PAST WEEK, AUGUST AND SEPTEMBER 2020



Mon savis, Agarwall, & Drewnowksi. Following Federal Guidelines to In crease Nutrient Consumption

Source: U.S. Census Bureau Household Pulse Survey Phase 2, Food Table 2b

Burdening the System

Patients Suffer, American Healthcare System Suffers

Burdening the System

- These disparities are putting a financial burden on our healthcare system and society at large:
 - Caring for sicker patients cost more
 - Lost productivity and absenteeism
 - Lost wages
 - Premature death

Costs of Inequities

• Between 2003 and 2006, 31% of direct medical care expenditures for African Americans, Asians, American Indians and Hispanics were excess costs *due to health inequalities*

Tracking the Numbers

- To Advance health equity you must first understand the root causes
 - Reach beyond the clinic
 - Engage in the community
 - Make the connection
- And the only way to know your specific causes in your clinic is to *TRACK YOUR NUMBERS*

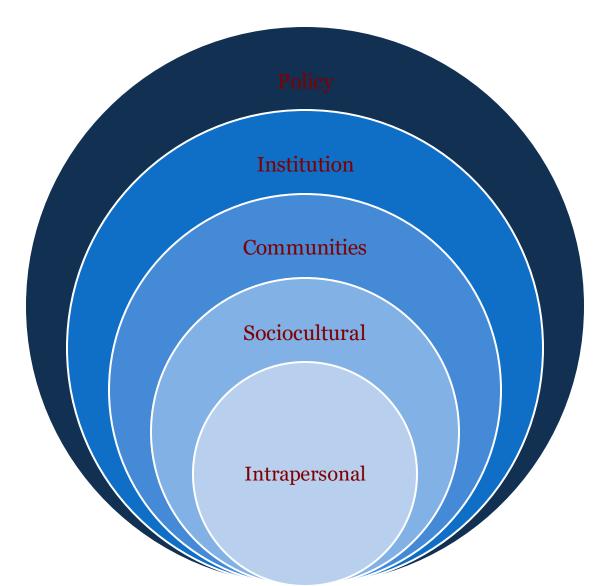
Reducing Disparities

A Multi-Level Approach

What We Know

- SOCIAL INEQUALITY inhibits access to the conditions for optimal health
- Multi-level interventions warranted to appreciate changes

Multi-level Interventions



Improving Access

- Improve patient outcomes by increasing providers that represent the community they serve
- Providers return to communities from which they came
- NCCHCA working to create a pipeline of qualified providers of color

Improving Healthy Food Access

- Grassroots, food-based organizations
- Urban agriculture programs
- Influence policy makers

Reducing Disparities

Re-examining Patient & Provider Behaviors

Behavioral Factors

Patient-Level

- Patient preferences
- Care seeking behaviors and attitudes
- Clinical appropriateness of care
- Health Care Systems-Level
 - Lack of interpretation and translation services
 Time pressures in clinical encounters
- Provider-Level ***
 - Unexamined bias and stereotyping
 - Clinical uncertainty
 - Beliefs, stereotypes and assumptions about the behavior or health of minority patients

The Core Paradox?

 How could well-meaning and highly educated health professionals create a pattern of care that appears to be discriminatory?

Disparities in the Clinical Encounter

- Unconscious Bias
- Clinical Uncertainty particularly when providers treat patients that are dissimilar in cultural or linguistic background
- Stereotyping through use of 'cognitive shortcuts'

Unconscious Bias

- Is a learned stereotype that operates automatically – unconsciously – when interacting with people.
- Different from bigotry or overt racism
- Data supports the fact that people can and do genuinely believe in equality, while simultaneously engaging in behavior that favors dominant groups.

What is Unconscious Bias? <u>http://writers.unconsciousbias.org/</u>

Bias in Clinical Encounters

- Approximately 40% of 1st and 2nd year medical students believe Black people have thicker skin
- Misinformation and hidden biases fuel inadequate treatment of minorities' pain
- Fosters an environment of mistrust and hostility

Stereotyping

- Can exert powerful effects on thinking and actions at an implicit, unconscious level
- Can influence how information is processed and recalled
- Can exert "self-fulfilling" effects, as patients' behavior may be affected by providers' overt or subtle attitudes and behaviors

Strategies for Reducing Unconscious Bias

- Awareness training of bias and stereotypes and their effect on clinical decision making
- Practice self-reflection
- Individuation vs. categorization
- Perspective-taking and affective empathy
- Partnership building

What Can We Do?

- START BY TRACKING YOUR NUMBERS AT YOUR CLINIC
 - In order to institute specific strategies for improvement, we must have data
- Emphasis on health promotion and disease prevention
- Patient-centered = improved self-care

QUESTIONS?