# Addressing the Social Determinants of Health: Why it Matters

July 19, 2018

Presented by:
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Cuyahoga County Board of Health
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## Objectives

- Define the Social Determinants of Health
- Describe the factors that influence and create health
- Practical application of the social determinants
- Toxic stress and its impact on health
- Race, Racism and the impact of Cleveland's Redlining history on health and well being today
- Examples of models to explain and address the social determinants
- The St. Luke's Foundation Strategic Plan Goals and Strategies

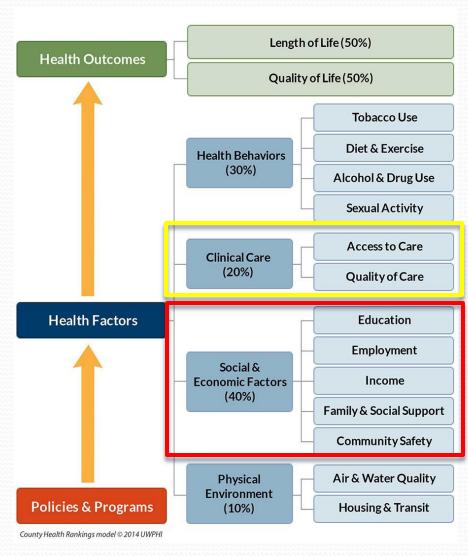
### Social Determinants of Health

- The complex, integrated, and overlapping social structures and economic systems that are responsible for most health inequities.
- These social structures and economic systems include the social environment, physical environment, health services, and structural and societal factors.
- Social determinants of health are shaped by the distribution of money, power, and resources throughout local communities, nations, and the world (CDC)

Source: Centers for Disease Control and Prevention

## Cuyahoga County

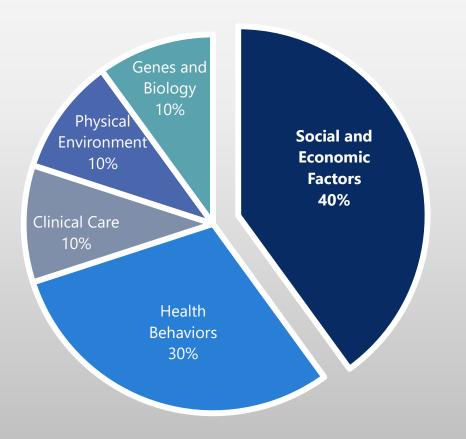
- Cuyahoga County ranks in the bottom third of all 88 counties in Ohio for residents' health outcomes.
- Even though Cuyahoga County ranks consistently in the top 10 in the state for clinical care (measured by access to and quality of care), this has not made our residents healthier.
- The conditions that shape health are not spread equitably across the county.
- There are significant differences in life expectancy, depending on where someone lives and their race/ethnicity.





#### Consider What Creates Health

#### **Determinants of Health**



- Necessary conditions for health (WHO)
- \* Peace
- \* Shelter
- \* Education
- \* Food
- \* Income
- \* Stable eco-system
- Sustainable resources
- Mobility
- Social justice and equity

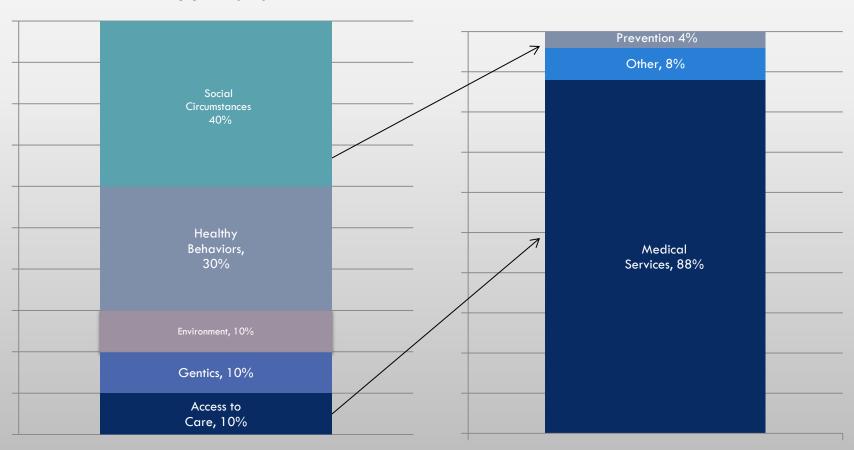
Determinants of Health Model based on frameworks developed by: Tarlov AR. *Ann N Y Acad Sci* 1999; 896: 281-93; and Kindig D, Asada Y, Booske B. *JAMA* 2008; 299(17): 2081-2083.



## Spending Mismatch: Health Care and Other Key Determinants of Health

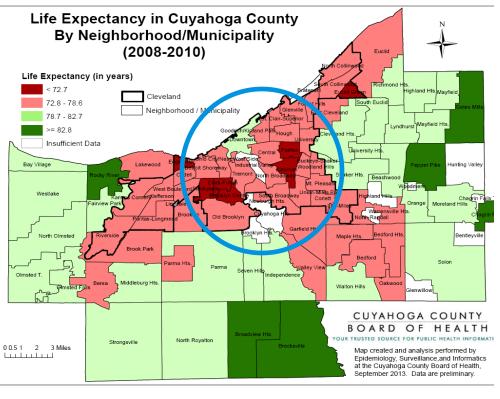
#### **Determinants**

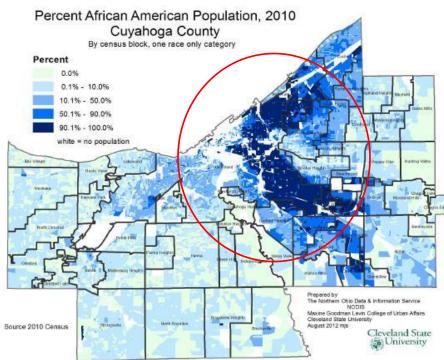
#### **National Health Expenditures**

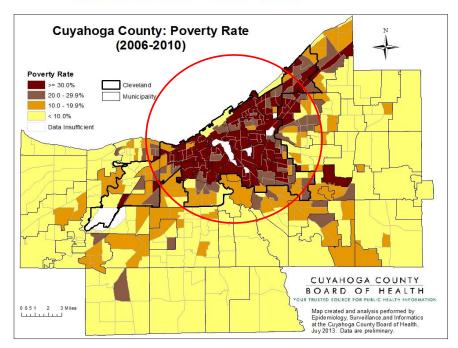


Source: NEHI, 2012

## **Cuyahoga County**







#### "Social Determinants of Health"

- Social-Physical-Economic-Services Determinants
  - Income & income inequality
  - Education
  - Race/ethnicity/gender & related discrimination
  - Built Environment
  - Stress
  - Social support
  - Early child experiences
  - Employment
  - Housing
  - Transportation
  - Food Environment
  - Social standing

Source: California Department of Health

#### Factors that Affect Health

Smallest Impact

Counseling & Education

Clinical Interventions

Long-lasting
Protective Interventions

Changing the Context to make individuals' default decisions healthy

Socioeconomic Factors

Examples

Eat healthy, be physically active

Rx for high blood pressure, high cholesterol, diabetes

Immunizations, brief intervention, cessation treatment, colonoscopy

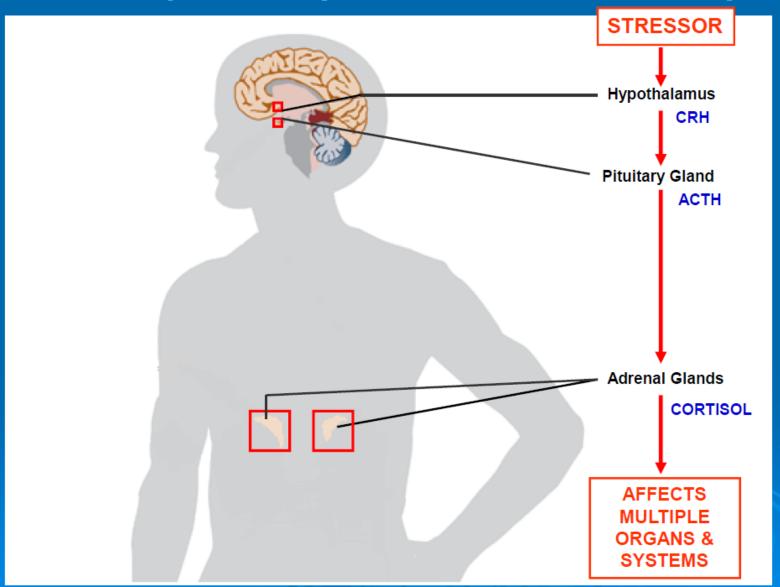
Fluoridation, 0g trans fat, iodization, smokefree laws, tobacco tax

Poverty, education, housing, inequality

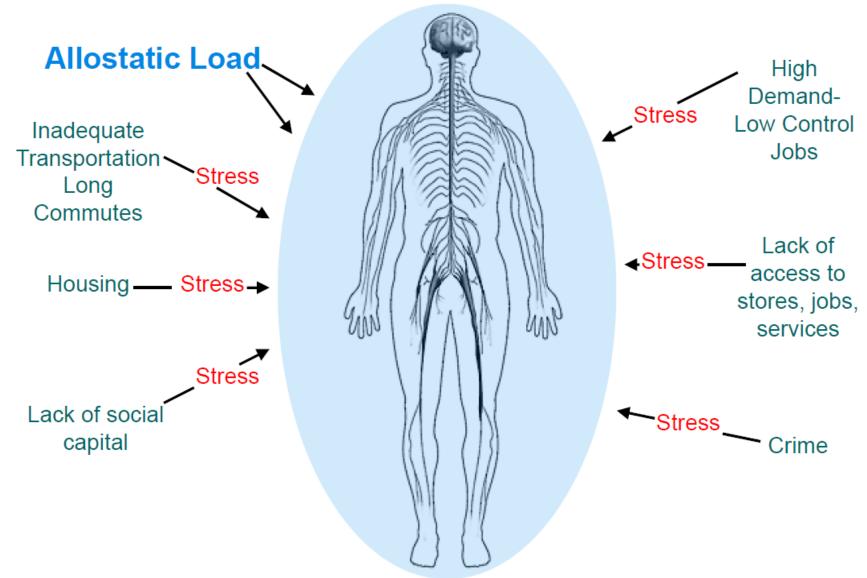


Largest Impact

### Stress pathway from brain to body



## When the external becomes internal: How we internalize our environment



## Estimated Deaths Attributable to Social Factors in the US - 2000

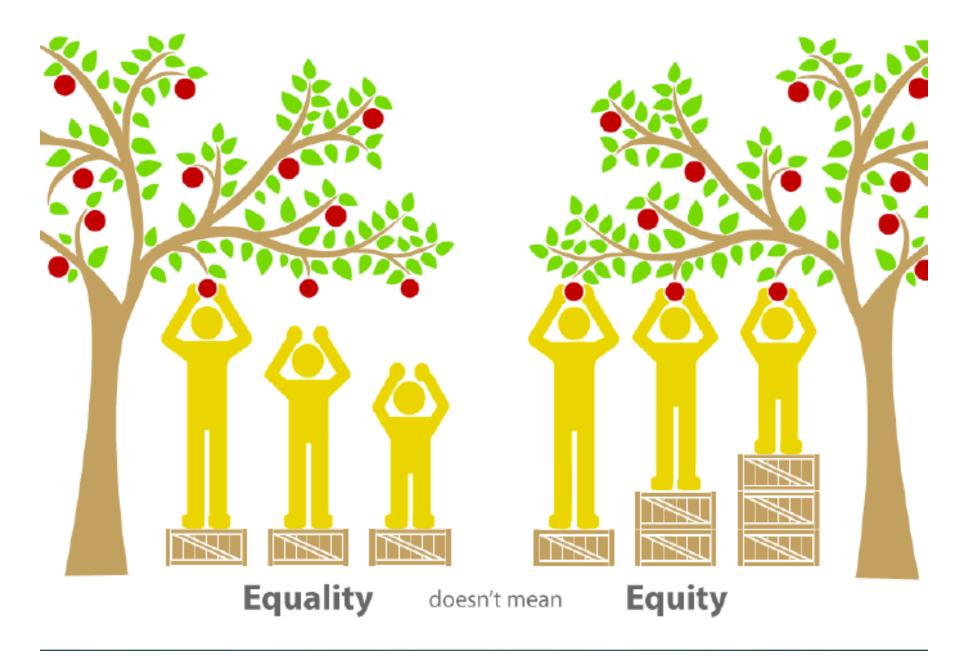
Low education: 245,000
Racial segregation: 176,000
Low social support: 162,000
Individual level poverty: 133,000
Income inequality: 119,000

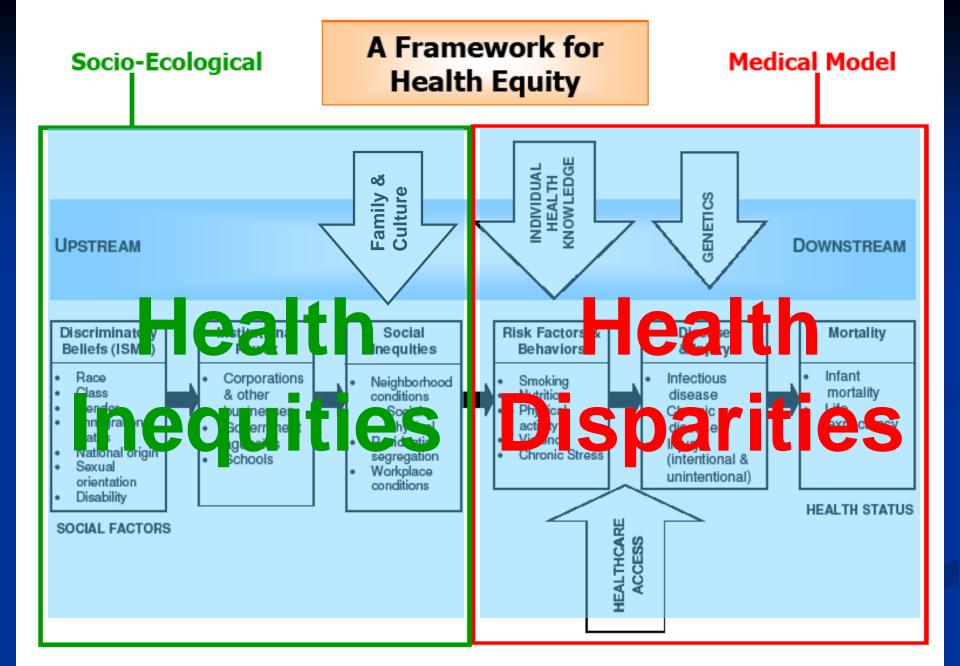
Area level poverty: 39,000

In comparison:

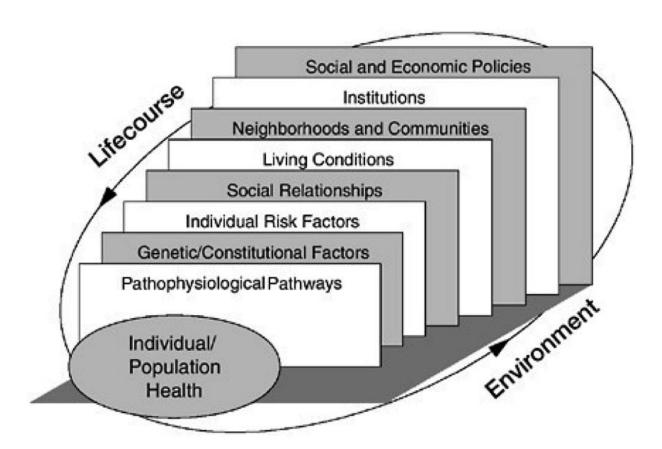
Acute MI: 192,898Cerebrovascular disease: 167,661Lung cancer: 155,521

Estimated Deaths Attributable to Social Factors in the US. Galea S et.al. AJPH:June 16,2011;eprint.









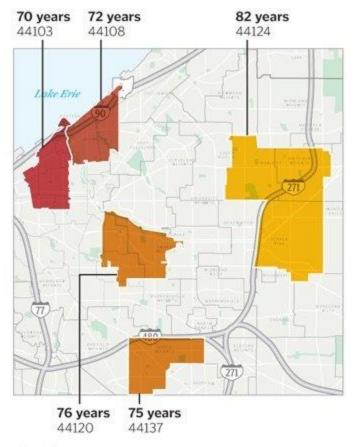
Reference: IOM (Institute of Medicine). 2000. Promoting Health: Intervention Strategies from Social and Behavioral Research, p. 43. Washington, DC: National Academy Press.

#### Place Matters...

- Where you live impact your health, opportunity and life expectancy
- Communities just 8 miles apart have a 10 year difference in life expectancy
- The choice you make are often the choices you have

#### Your zip code can affect your life expectancy

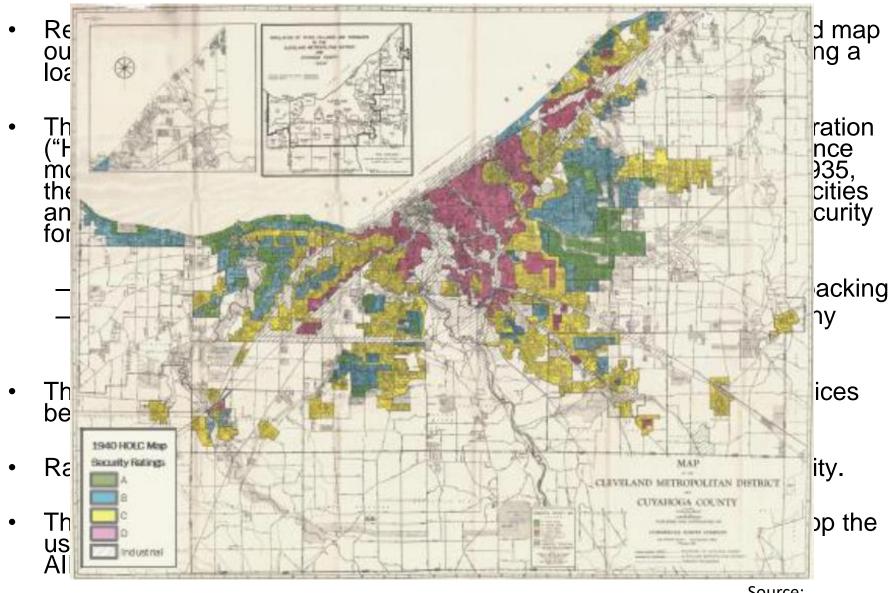
If you travel less than ten miles from Cleveland's northeastern neighborhoods to more affluent eastern outer-ring suburbs, life expectancy can differ by as much as 12 years.



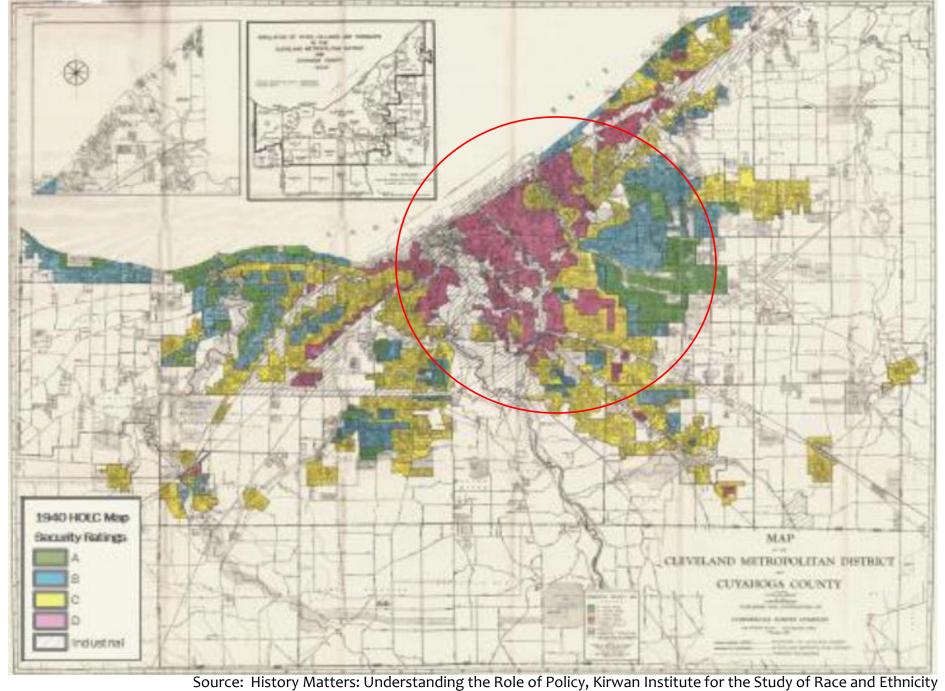
SOURCES: Virginia Commonwealth University; Robert Wood Johnson Foundation

THE PLAIN DEALER

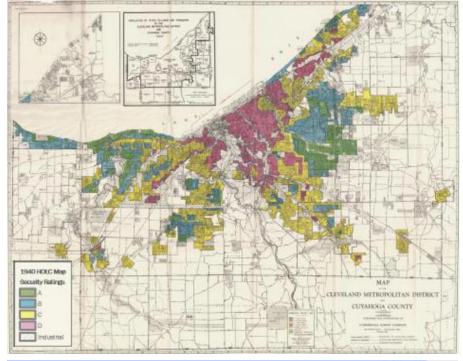
## The Impact of Redlining



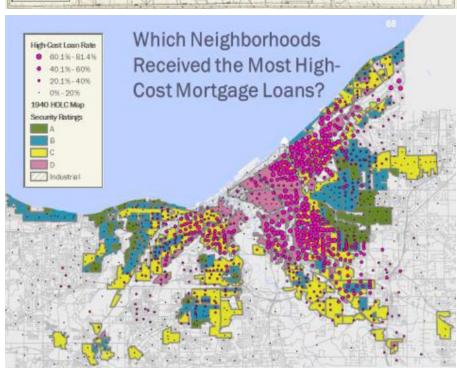
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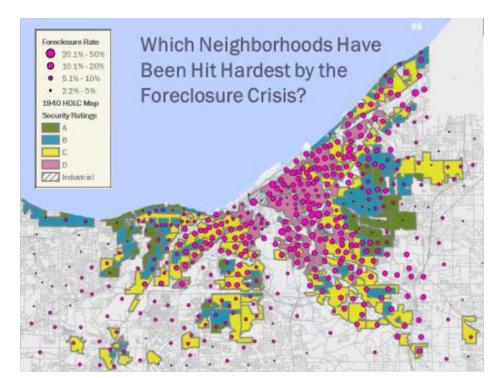


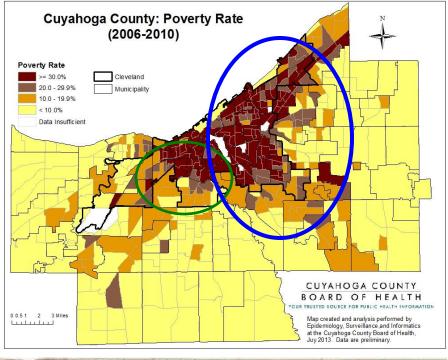
Source: History Matters: Understanding the Role of Policy, Kirwan Institute for the Study of Race and Ethnicity at the Ohio State University, February 2015.

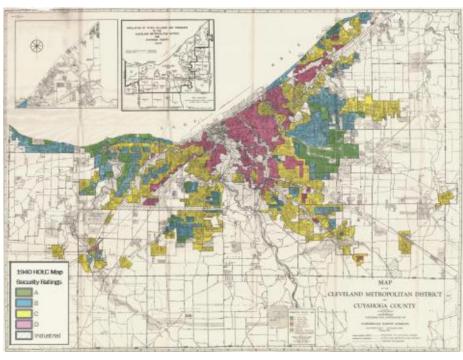


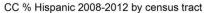
Comparisons between "Redlining", High-Cost Mortgage Loans, and the Areas Hardest Hit by the Foreclosure Crisis

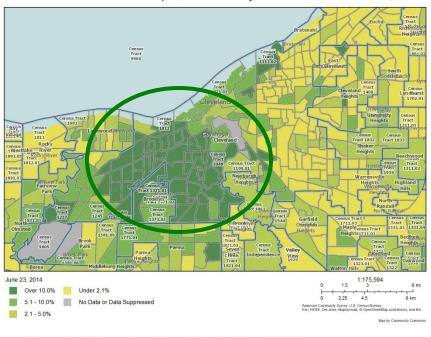


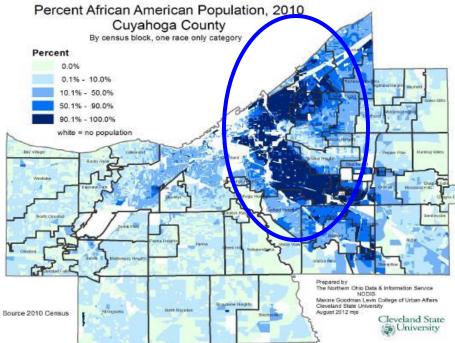




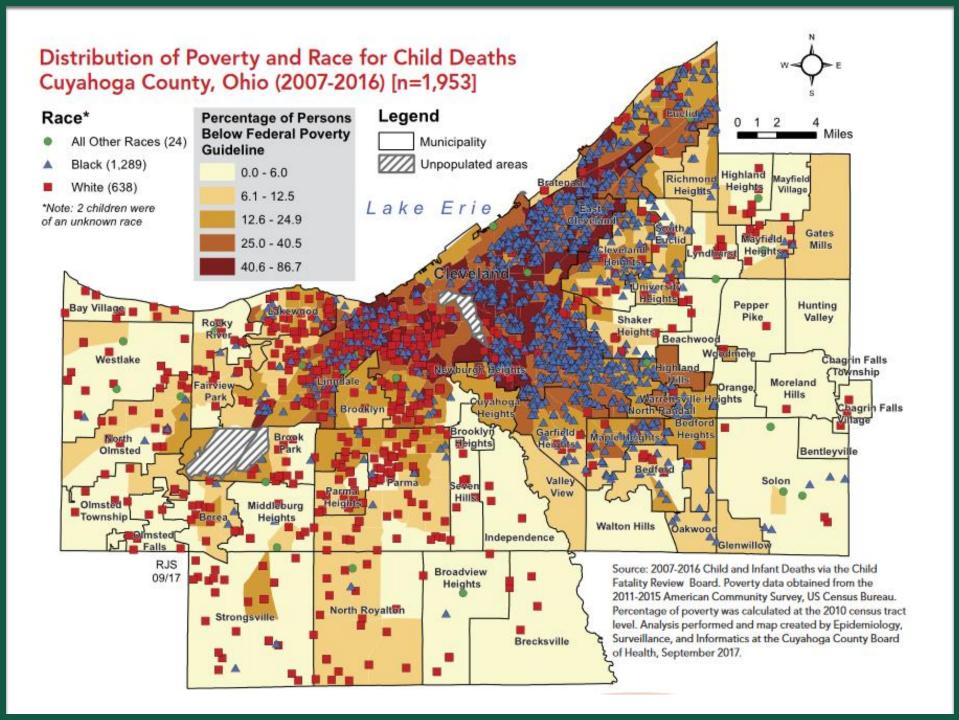


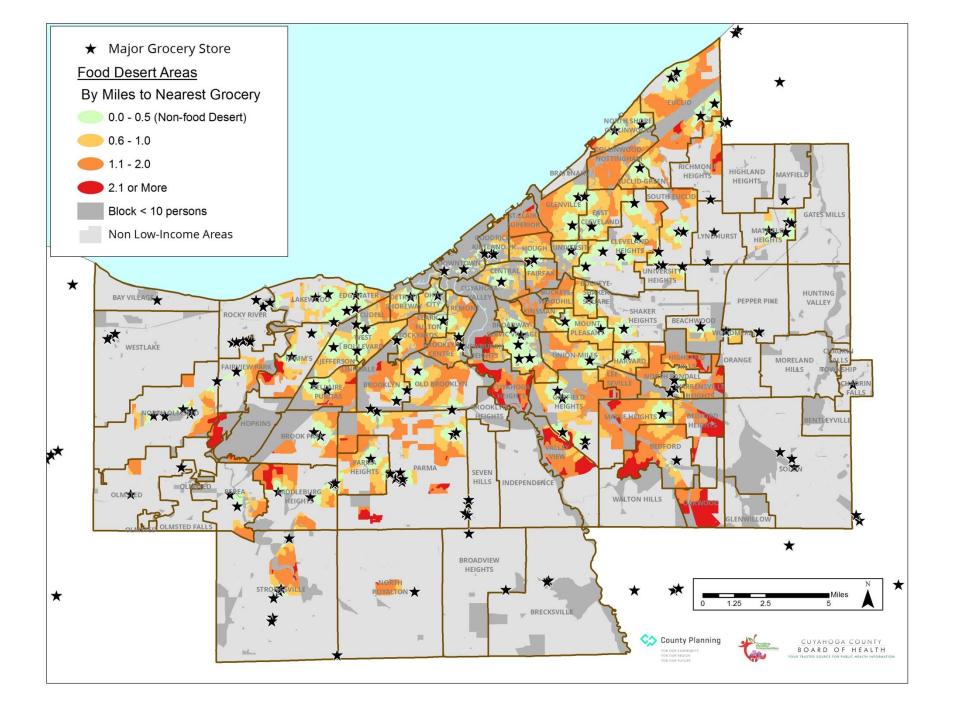


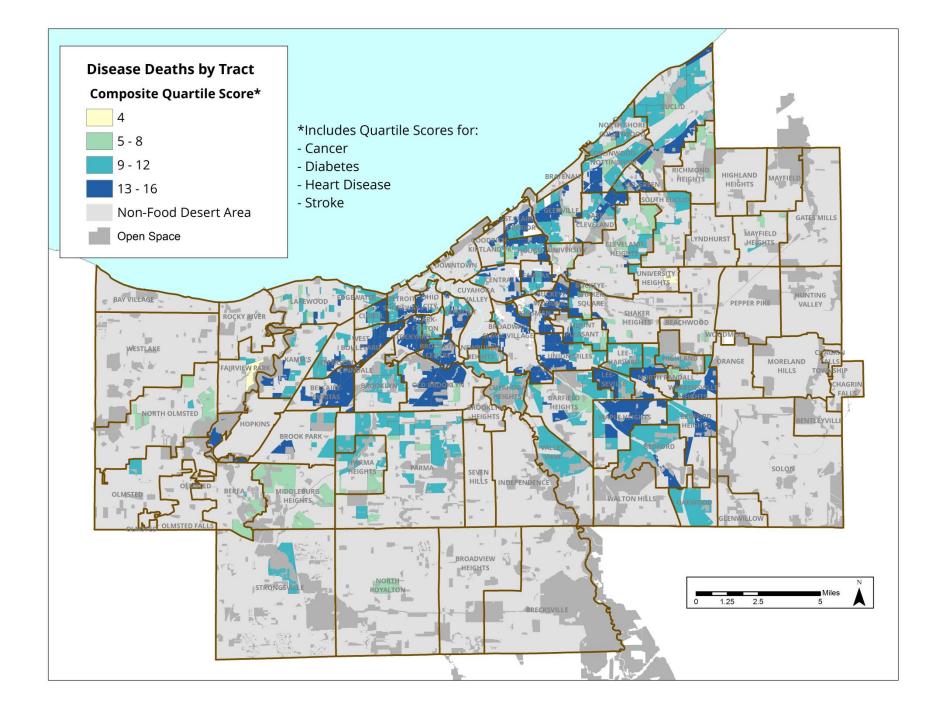


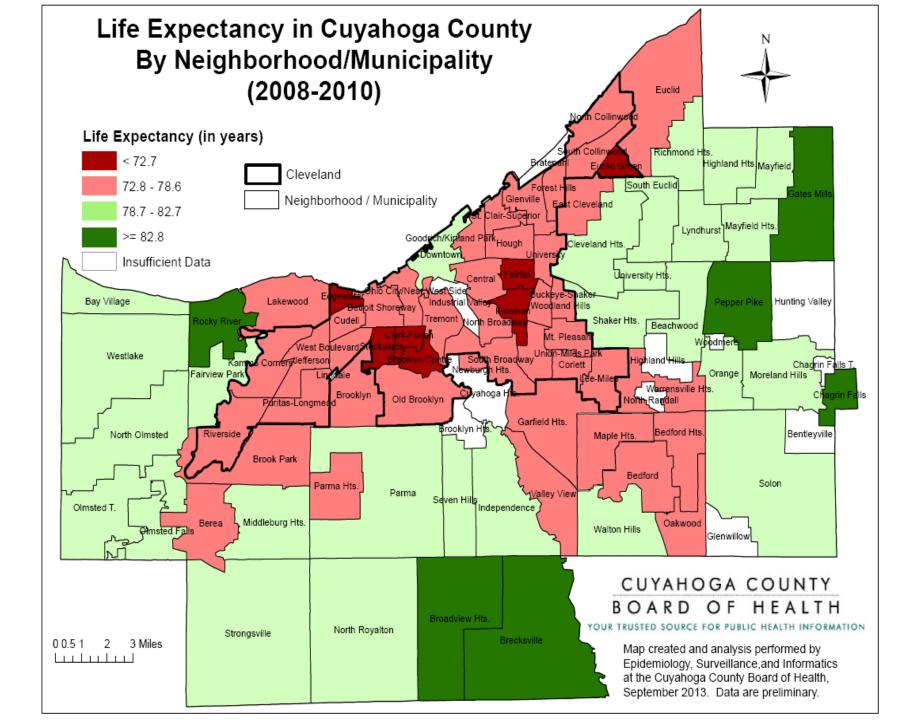


2008-2010 Birth Rate among Adolescents Aged 15-17 Years by Cleveland Neighborhood and Suburban Municipality Legend 0.0 - 43.0 (Meets HP 2010) 43.1 - 86.0 86.1 - 129.0 129.1 or greater Insufficient Data 4 Miles See "Appendix A" for indexed map of neightborhoods/muncipalities.













**Upstream interventions** and strategies focus on improving fundamental social and economic structures in order to decrease barriers and improve supports that allow people to achieve their full health potential.

**Downstream interventions** and strategies focus on providing equitable access to care and services to mitigate the negative impacts of **disadvantage** on health.

Source: National Collaborating Center for Determinants of Health, Canada

## Downstream vs Upstream

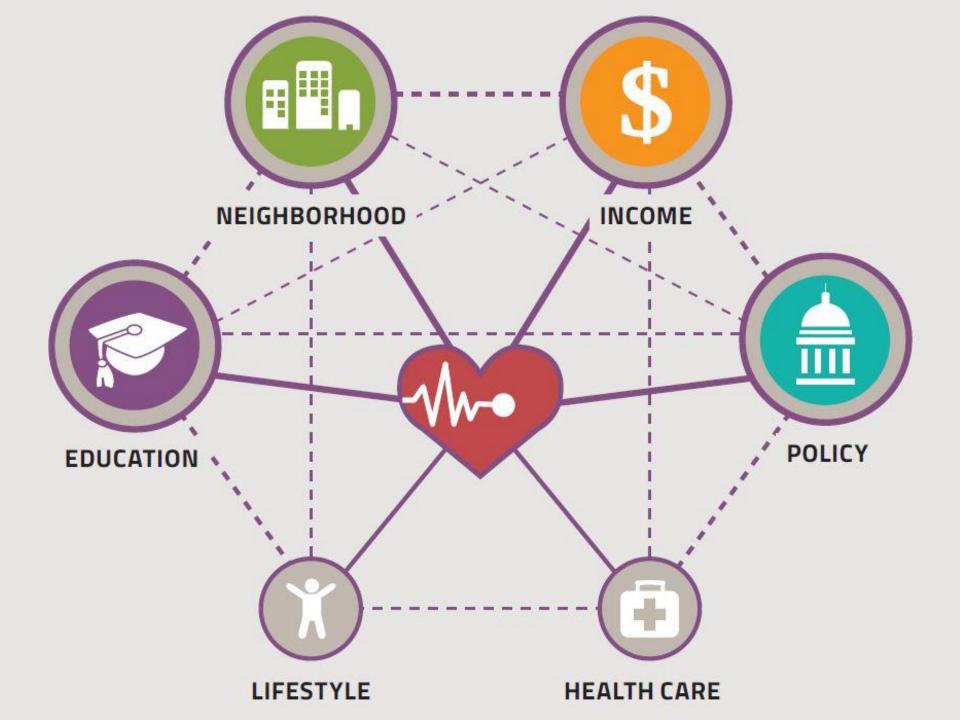
Legal Needs/Services

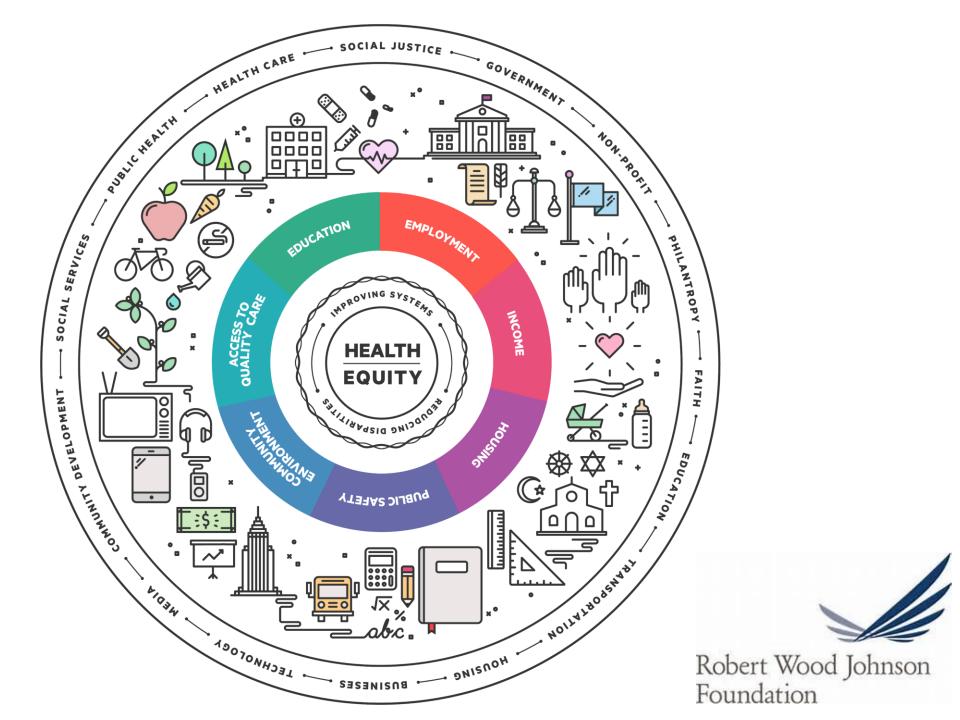
- Physical Inactivity
  - Unsafe Neighborhoods/Access

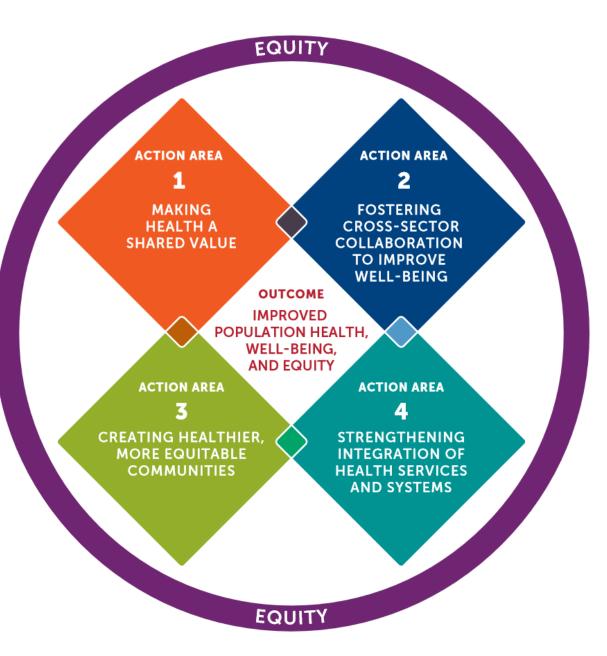
- Hypertension
  - Insurance
  - Management Education

- Community
   Policing/Neighborhood
   Engagement
- Concentrated Poverty/Racial & Economic Segregation
  - Housing Policy

- Alcohol outlet density
- Food Deserts
- Land Use/Zoning











health promotion and well-being



Local health department collaboration

Opportunities to improve health for youth at schools

Business support for workplace health promotion and Culture of Health U.S. corporate giving

Federal allocations for health investments related to nutrition and indoor and outdoor physical activity

Community relations and policing

Youth exposure to advertising for healthy and unhealthy food and beverage products

Climate adaptation and mitigation

Health in all policies (support for working families)



BUILT ENVIRONMENT/
PHYSICAL CONDITIONS

SOCIAL AND ECONOMIC ENVIRONMENT

POLICY AND GOVERNANCE

Housing affordability

Access to healthy foods

Youth safety

Residential segregation

Early childhood

education

Public libraries

Complete Streets policies

Air quality





INTEGRATION

Access to public health

Access to stable health insurance

**Access to mental** health services

Routine dental care

**Consumer experience** 

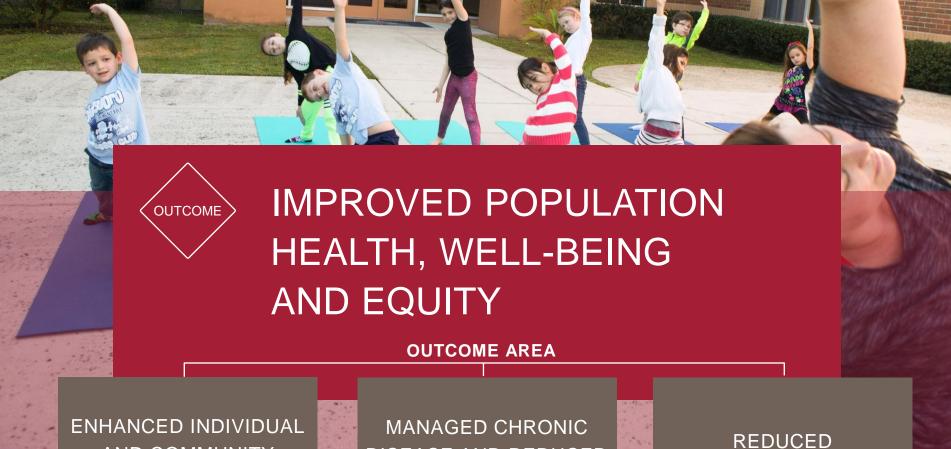
**Population covered** by an Accountable **Care Organization** 

**Electronic medical** record linkages

**Hospital partnerships** 

**Practice laws for** nurse practitioners

Social spending relative to health expenditure



ENHANCED INDIVIDUAL
AND COMMUNITY
WELL-BEING

Well-being rating Caregiving burden

MANAGED CHRONIC
DISEASE AND REDUCED
TOXIC STRESS

Adverse child experiences

Disability associated
with chronic conditions

REDUCED
HEALTH CARE COSTS

Family health care cost
Potentially preventable
hospitalization rates

Annual end-of-life care expenditures



#### Define Individual Health in Context of Community Health



**Healthy Communities** The New Economic Development Anti-blight **Public safety Preferred housing types** Affordable housing Homeownership & rental opportunities Neighborhood retail and amenities **ECONOMY:** CITY **ECONOMIC** Workers' **HEALTH** Business **Knowledge &** Growth Skills Innovation Family literacy Commercialization of discoveries Pre-conception health 0-3 child development Connections to markets, strategic partners Economic inclusion commitments for M/W/LBE Pre-K - 12 education Management assistance Substance abuse treatment **Entrepreneurship support Ex-offender re-entry** Risk capital **Higher education** Networks Skills training **Asset building** 

> Source: Marsha R. B. Schachtel, Johns Hopkins Institute for Policy Studies Bloomberg School of Public Health Provost's Symposium on the Social Determinants of Health, May 2012

#### **SLF Goals**

Goal #1: Close the health equity gap



Goal #2: Advocate for more equitable and responsive policies and practices that reduce the unfair treatment and disparate impact of structures, institutions and systems



Goal #3: Be a High Performing Foundation



### **SLF Strategies**



#### **Educational Attainment**

Among the factors that contribute to health inequity is the quality and duration of education - from early childhood through post-secondary education and/or job training.



#### Financial Stability

According to data from the Robert Woods Johnson Foundation (RWJF), it really is simple: adult life expectancy increases with increasing income. People in the highest-income group can expect to live at least six and a half years longer than poor men and women.



#### Housing Safety and Stability

According to research compiled by the Robert Woods Johnson Foundation, the affordability of housing has clear implications for health. Housing is a social determinant of health for three main reasons: adequate and safe housing conditions, affordability, and residential stability. Housing instability can involve trouble paying rent, overcrowding, moving frequently, staying with relatives, or spending the bulk of household income on housing (spending more than 30% of their income on housing is considered "cost burdened").



#### Social Connections

Social isolation is a state in which a person lacks a sense of belonging, isn't engaging with others, and has few social connections and quality relationships. Social connections help give our lives purpose and meaning. When we have family, friends, and coworkers to celebrate and commiserate with, and when we feel part of our communities, we live longer, healthier lives.



#### Healthy Eating & Active Living

All communities need access to healthy foods and safe places to play and be active—but not all communities have equal access. Low-income communities, particularly communities of color, are more likely to lack access to healthy foods and safe places to play and be active.



#### Saint Luke's Neighborhood

There is a growing body of research that illustrates the connection between "place" and health – and it is well documented that a person's zip code can influence health more than their genetic code. The commission to build a Healthy America tells us that our homes and communities have enormous impact on our health.

"It's the decisions that we make as a collective that matter more than any choice we make on our own."

The Secret to a Longer Life? Don't Ask These Dead Longevity Researchers

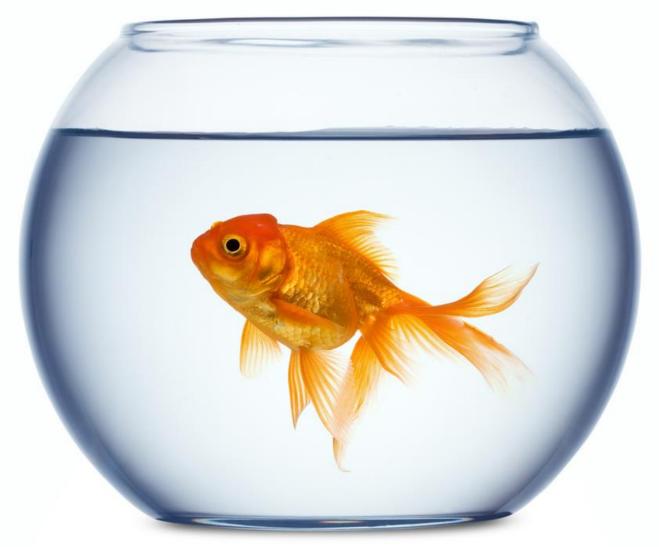




"Wise statesmen as they were, they knew the tendency of prosperity to breed tyrants, and so they established these great self-evident truths, that when in the distant future some man, some faction, some interest, should set up the doctrine that none but rich men, or none but white men, were entitled to life, liberty and pursuit of happiness, their posterity might look up again to the Declaration of Independence and take courage to renew the battle which their fathers began..."



-Abraham Lincoln on the Declaration of Independence, 1858



Health is determined by "the water"...our environment and social context