

Social Determinants of Health: Our Next Public Health Challenge

Patricia Clements, MSSA, LSW

Health Equity Policy Analyst

The Office of Health Opportunity, Ohio Department of Health

Myriam Shaw Ojeda, RPh, PharmD

Assistant Professor, Director of Pharmacy Extension and Public Health Initiatives

The Ohio State University College of Pharmacy, Ohio Pharmacists Association



OPA Annual Conference & Trade Show
Reimagining Pharmacy

April 14-16, 2023



Disclosure Statement

- Patricia Clements and Myriam Shaw Ojeda have no relevant financial relationship(s) with ineligible companies to disclose.
and
- None of the planners for this activity have relevant financial relationships with ineligible companies to disclose.

Disclosure Statement #2

This presentation was current at the time of preparation

Learning Objectives

At the completion of this activity, the participant will be able to:

1. define social determinants of health (SDOH) in the context of Ohio's biggest healthcare challenges;
2. explain current disparities and trends in SDOH in Ohio; and
3. outline practical ways pharmacists and student pharmacists can incorporate SDOH into patient care.

Content Warning

- This verbal presentation includes materials that discuss sensitive and potentially distressing topics, including suicide, mental health, and racism. The information presented may be difficult for some listeners to hear, and could trigger emotional distress or discomfort.
- Please be aware that the presenters will be discussing these topics, and take care of yourself if you need to step away or seek support during or after the presentation.



Speaker Introductions

Why are we talking about social determinants of health?

Public Health Efforts

**Myriam Shaw Ojeda
Ohio Pharmacists Association,
The Ohio State University College of
Pharmacy
OSU Extension**



Office of Health Opportunity

Patricia Clements
Office of Health Opportunity, ODH



**Office of Health
Opportunity
Mission**

**Ensuring all Ohio
communities have a
fair and just
opportunity to thrive**

Office of Health Opportunity Key Objectives

- Establish equity as a pillar of Ohio's public health system.
- Improve clinical experiences and outcomes for the most vulnerable.
- Elevate and address the social determinants of health, by impacting upstream social and community conditions of health.
- Ensure an equitable response to COVID-19

Supporting Health Equity in Local Health Departments



Community of Health Equity Learning
and Practice (CHELP)



Health Equity Training



Health Opportunity Learning Academy
(HOLA)



Consultation



Ohio Health Opportunity Zones, SDOH
Dashboard

Supporting Health Equity at ODH



ODH Health Equity Leads 2.0



Health Equity Training for Public Health Professionals



New solicitation guidance



Program consultation



Elevating the voice of the community



Data improvement and analysis



What factors really affect healthcare?

- Genetics
- Behavior
- Environment
- Physical Influence
- Medical Care
- Social Factors

Define social determinants of health (SDOH) in the context of Ohio's biggest healthcare challenges





What are Social Determinants of Health?

The conditions in the environments where 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.



Social Determinants of Health



Social Determinants of Health
Copyright-free

 Healthy People 2030



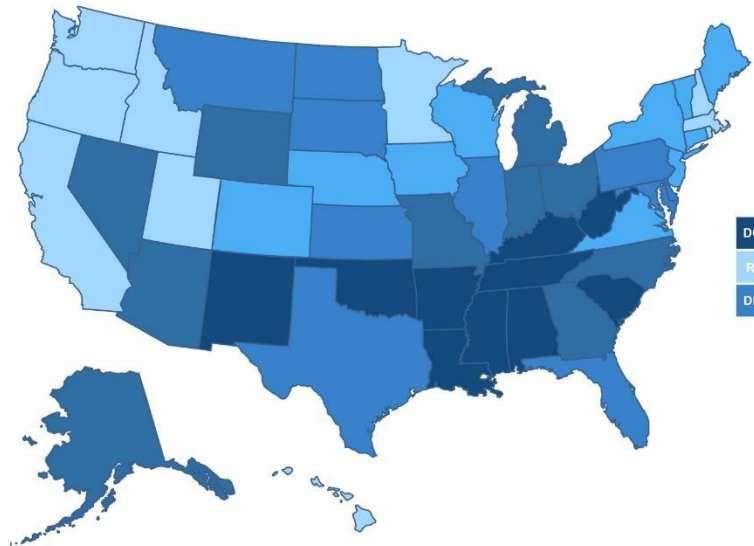
Thematic Map: Premature Death, 2022 Annual Report

DATA YEAR:

< 2020 >

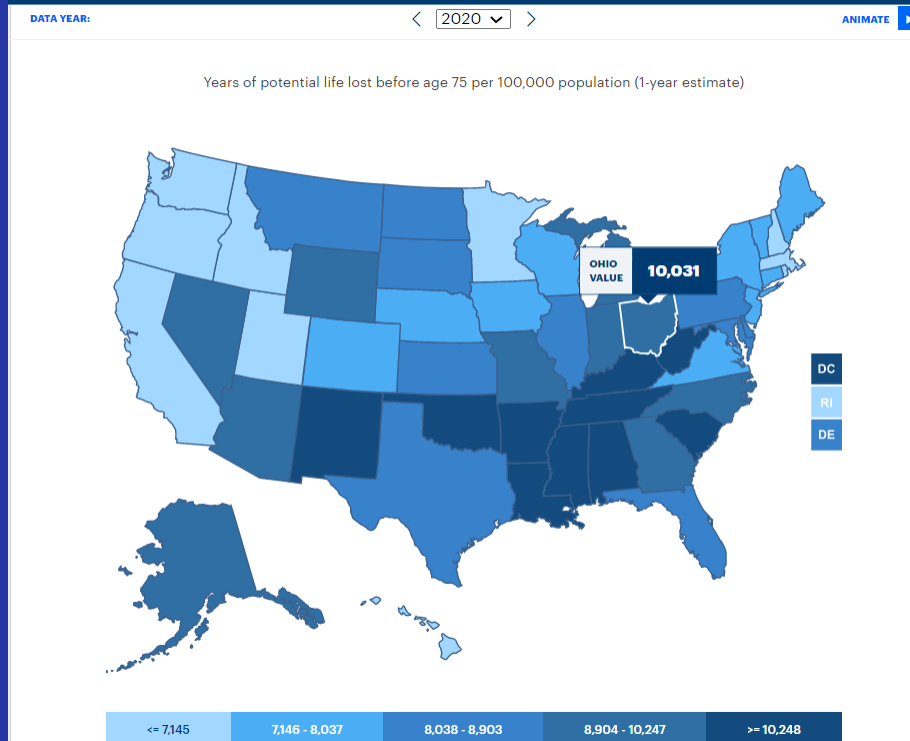
ANIMATE ▶

Years of potential life lost before age 75 per 100,000 population (1-year estimate)



SOURCE:

- CDC WONDER, Multiple Cause of Death Files



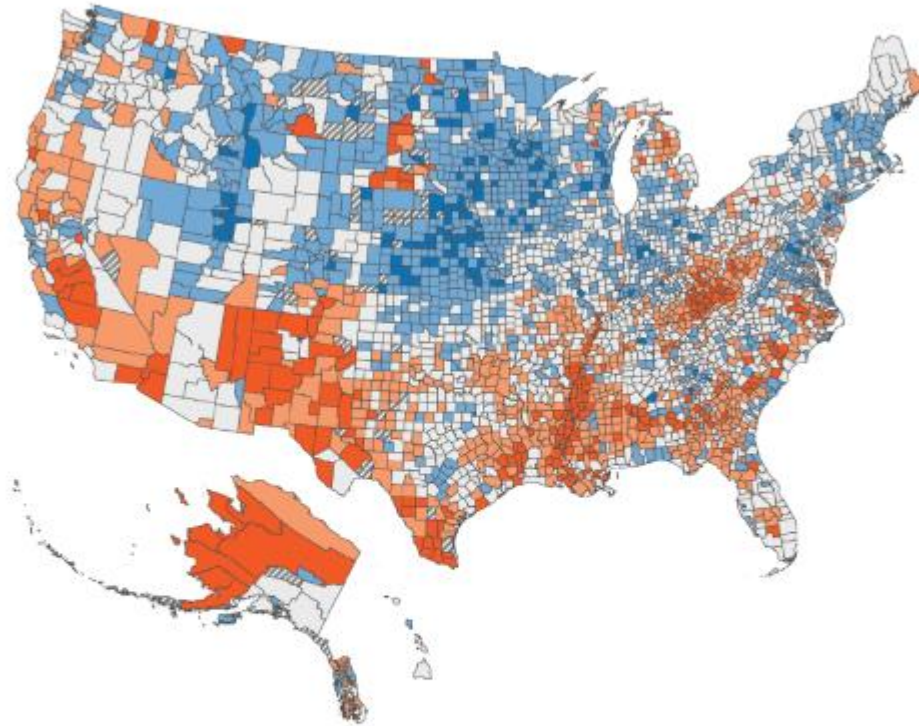


- **Goal:** Create neighborhoods and environments that promote health and safety.
- Locations of living influence key factors such as racial violence, crime, economic status and more.





Variation in Socioeconomic Opportunity Among U.S. Counties



Social & Economic Health Factors



Better

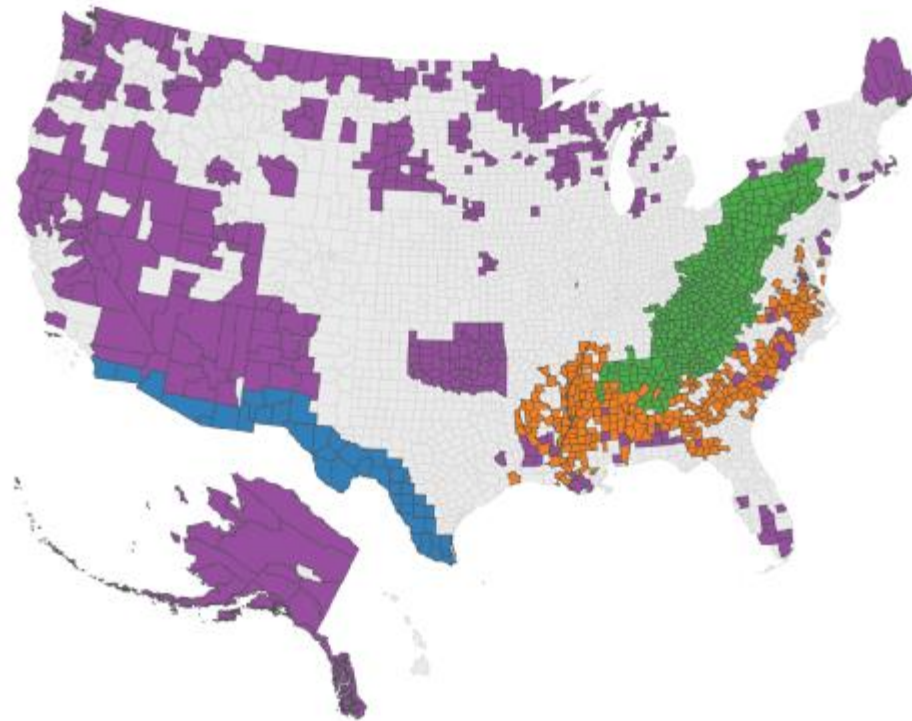
Worse

Missing

Data source: 2023 CHR&R Dataset



U.S. Regions with Types of Long-standing Discrimination and Disinvestment

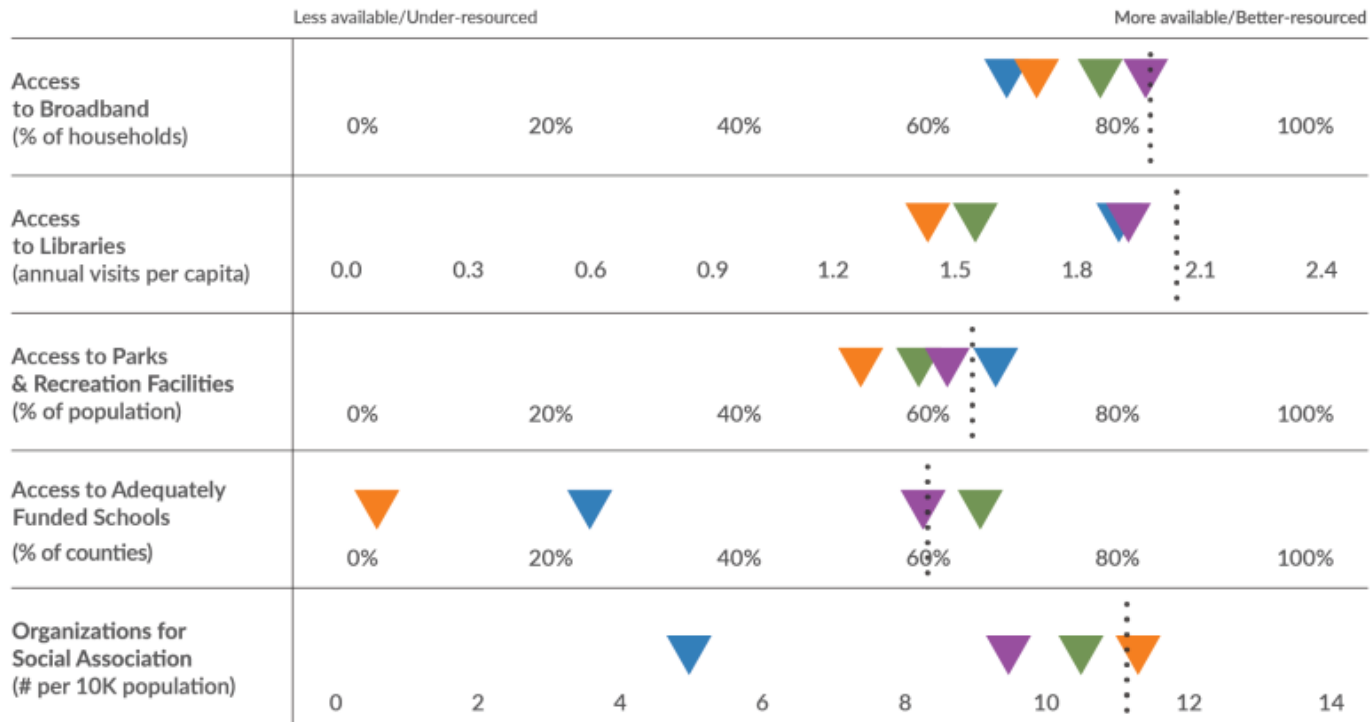
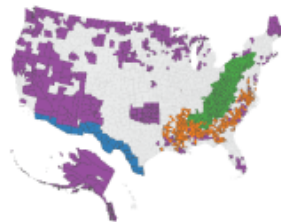


Regions with Types of Long-standing Disinvestment





Variations in Measures of Civic Infrastructure Among Regions with Types of Long-standing Discrimination and Disinvestment



Data sources: American Community Survey; Public Libraries Survey; Environmental Public Health Tracking Network; School Financial Indicators Database; County Business Patterns



- **Goal:** Help people earn steady incomes that allow them to meet their health needs
- This allows patients to afford healthy food, health care, and housing.





- **Goal:** Increase educational opportunities and help children and adolescents do well in school
- A good education sets children up for better economic outcomes and allow them to get well-paying jobs.



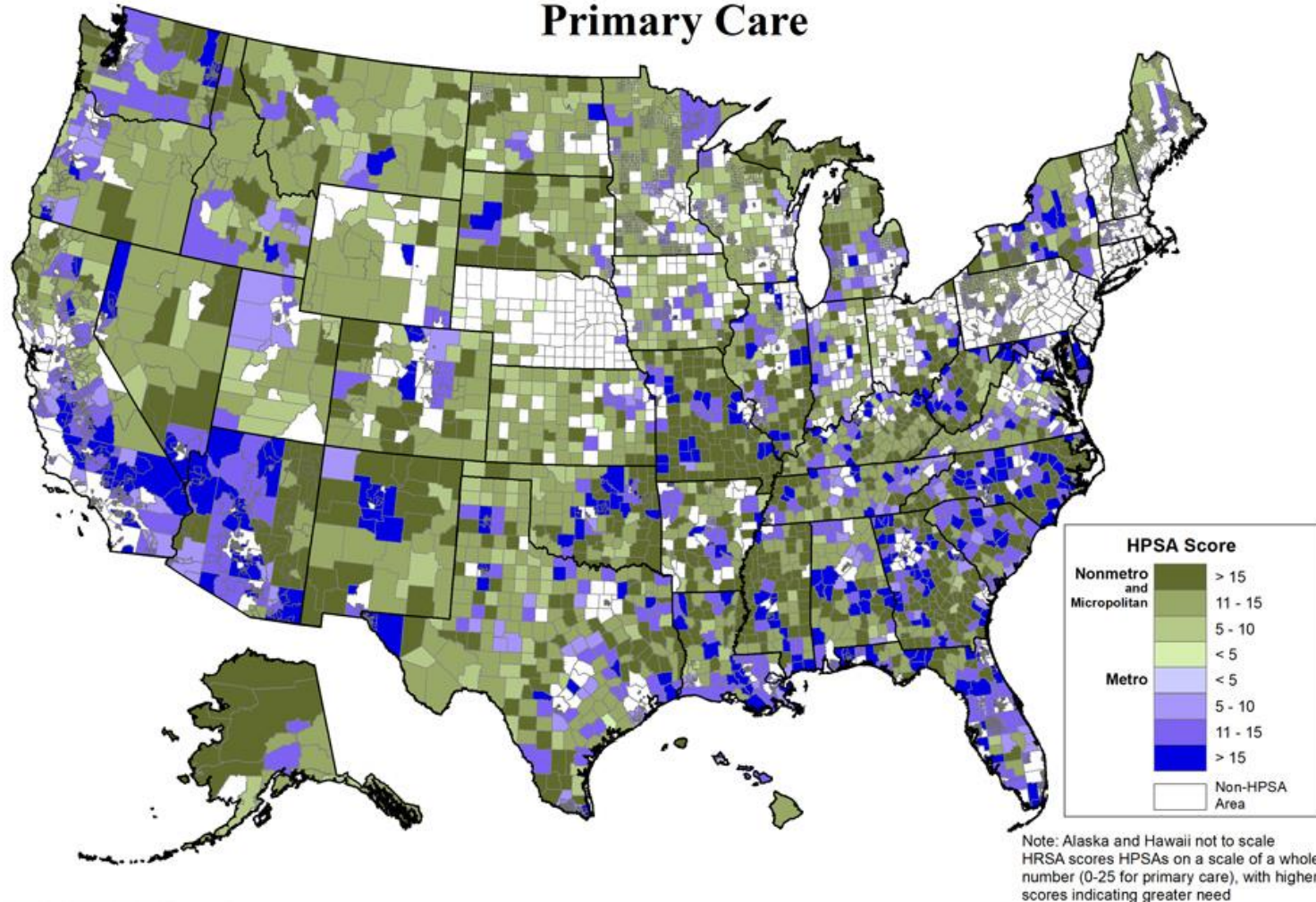


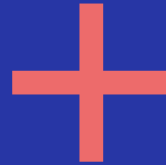
- **Goal:** Increase social and community support.
- Social interactions improve health and well-being.





Health Professional Shortage Areas Primary Care





- **Goal:** Increase access to comprehensive, high-quality health care services.
- Increase the affordability and accessibility of healthcare.





**What
about
Ohio?**



Explain current disparities and trends in Social Determinants of Health in Ohio



Equity isn't just about race

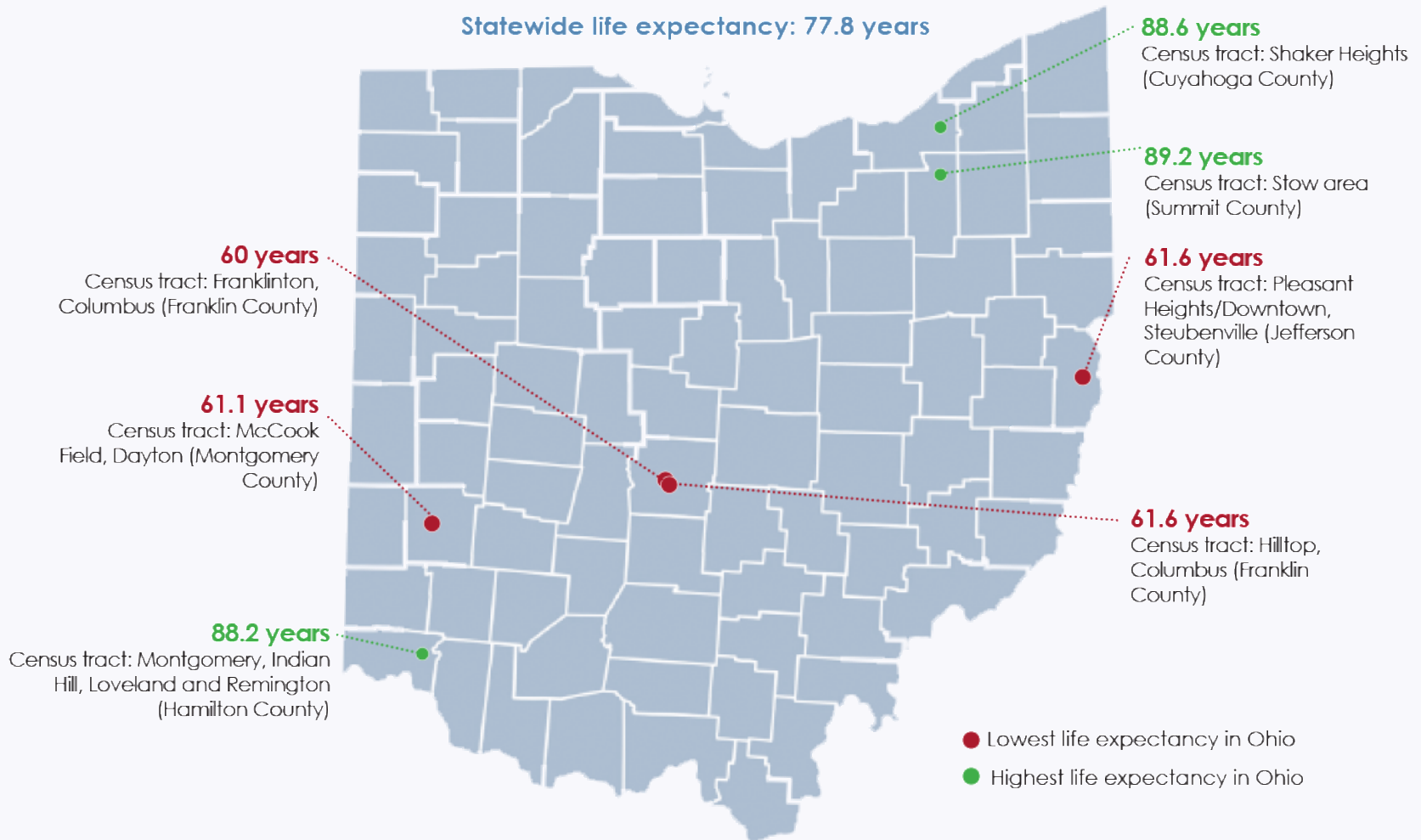
- Inequities exist between and within racial and ethnic groups
- Health disparities exist between geographic locations, disability status, socioeconomic status and community type, as well as race.
- Data has is limited ability by how federal, state and local programs collect demographic and place-based data.



What is Equity?

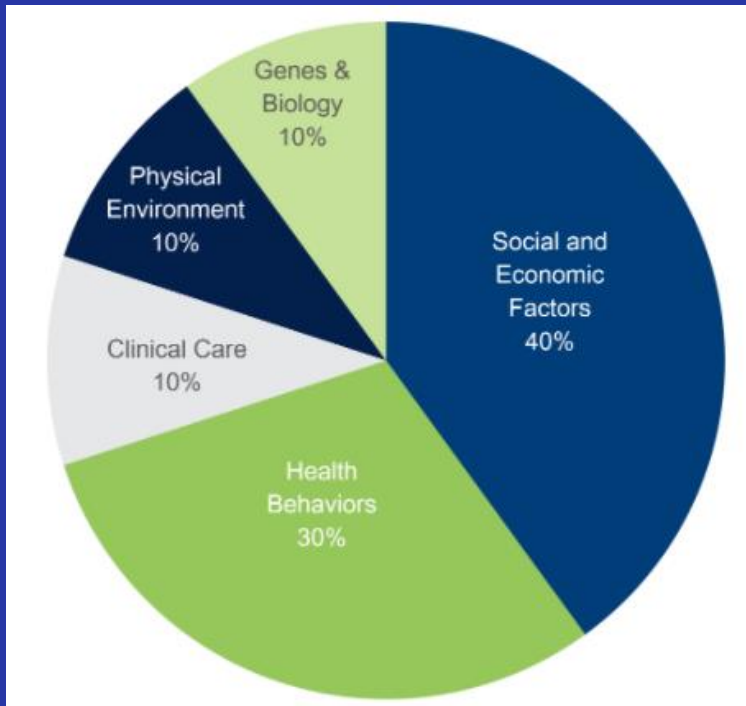


Ohio's Gaps in Outcomes





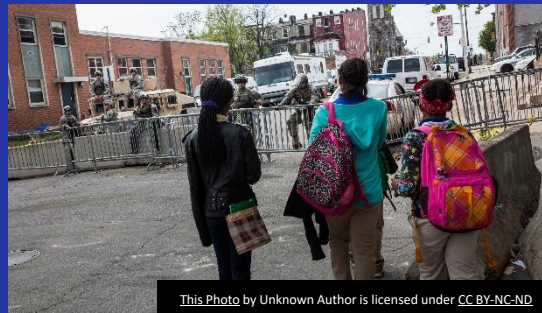
Why are some people healthy and others not?





Suicide completion in black girls

- Suicide among adolescent girls has increased 56% since 2009
- While suicide rates among white children are decreasing, completed suicides are increasing for black children.
- Suicide rates for black children ages 5 – 12 are nearly 2X higher than for white children.



This Photo by Unknown Author is licensed under [CC BY-NC-ND](https://creativecommons.org/licenses/by-nc-nd/4.0/)



Slide adapted from Health
Policy Institute of Ohio

Suicide completion

Lethal means

Depression

Past attempts

Hopelessness

Suicidal ideation

Anxiety

isolation



Slide adapted from Health Policy Institute of Ohio

Suicide completion





Outline practical ways
pharmacists and
student pharmacists
can incorporate SDOH
into patient care



How can pharmacists and student pharmacists get involved?



Government's tools to support a fair and just Ohio

- Establish expectations
- Develop a knowledgeable workforce
- Prioritize funding
- Collect and analyze data
- Lead with regulation and policy
- Engage in partnerships
- Provide technical assistance
- Create structural change





DATA

Sharing power through equitable data collection, analysis and use.



Centers for Disease Control and Prevention **COVID-19 Disparities Grant**



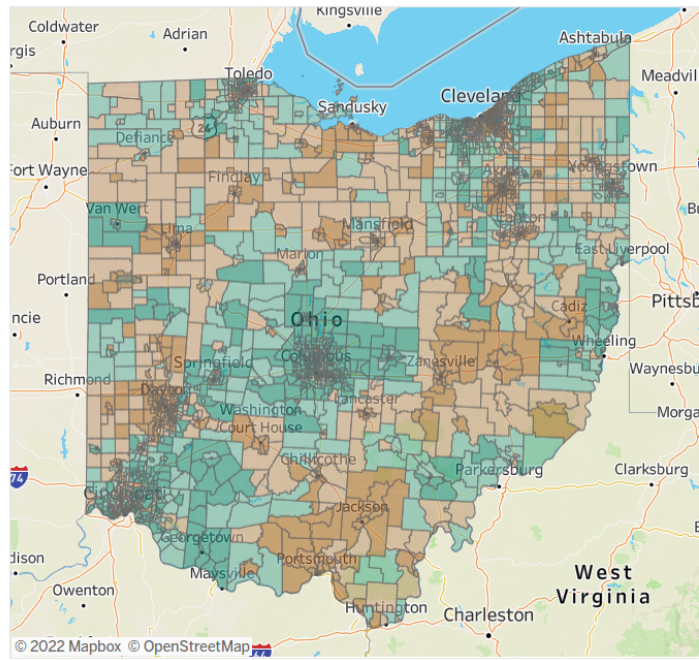


COVID-19 Impact

Hospitalizations and Deaths Per 100K are calculated using a two-week rolling sum.

Hospitalizations

117,274



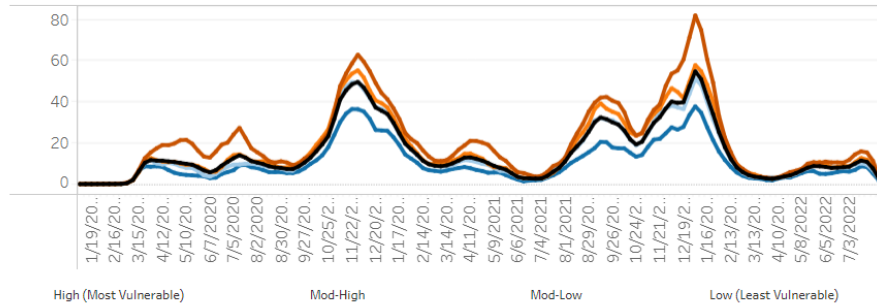
© 2022 Mapbox © OpenStreetMap

Lowest Hospitalizations 25th Percentile 75th Percentile Highest Hospitalizations Per

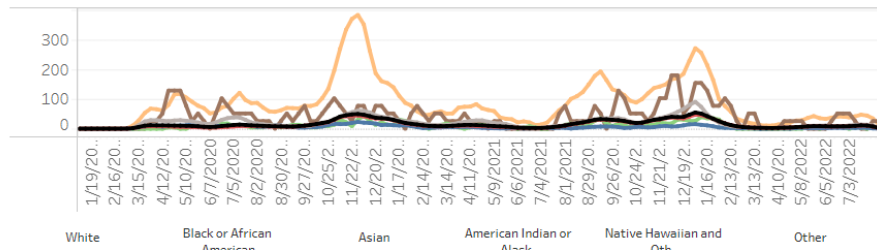
Total Population

11,319,891

Hospitalizations Per 100k by SVI



Hospitalizations Per 100k by Race

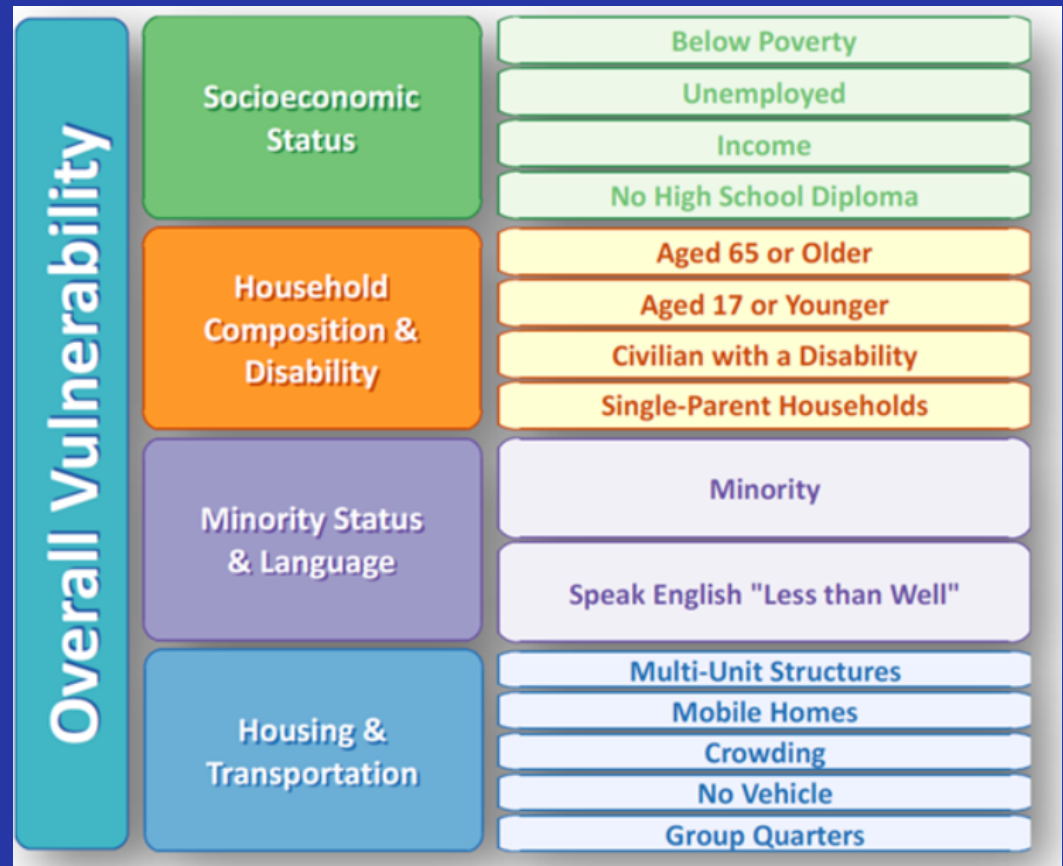


- Deaths & Hospitalizations
- Census Tract level
- By Race, Ethnicity & SVI



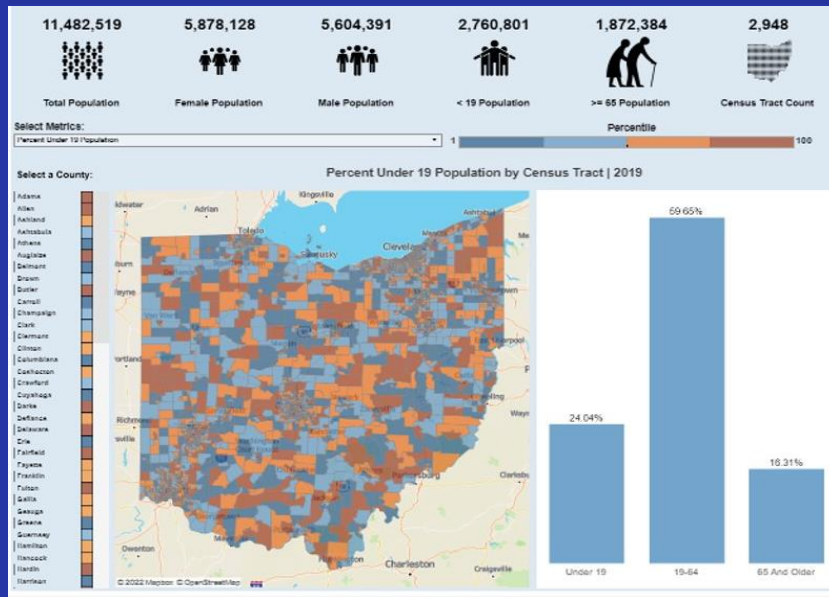
Ohio Health Improvement Zones

- Identify communities with specific risk factors
- Better understand community risks and strengths
- CDC SVI score of $\geq .75$
- [Ohio Health Improvement Zones](#)



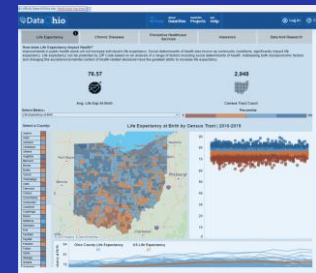
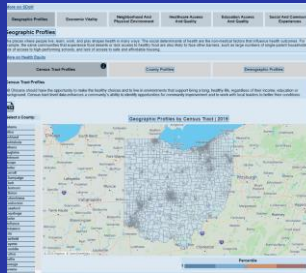


Community Wellbeing: Social Determinants of Health Dashboard



Publicly available on [the data.ohio.gov](https://data.ohio.gov)

- Uses publicly available data from Census Bureau, ACS, CDC, etc.
- 5 Domains and over 100 Metrics
 - Economic Vitality
 - Neighborhood and Physical Environment
 - Healthcare Access and Quality
 - Education Access and Quality
 - Social and Community Environment
- Includes: Maps, Jitter Plots, Bar Charts
- Geographic Profiles -> CSV Download
- Initiatives and Other Resources -> SHA, JFS, etc.
- Data is Census Tract level
- Sets Context – 3 Levels of Stories
- Does not compare to national averages



Demo

Community Wellbeing: Social Determinants of Health Dashboard



Let Us Discuss!

Let us say there was a train derailment in your community, and you learned that there was a material leaking from a car that may be harmful to residents who were directly exposed?

- How could you use available data/ dashboards?
- What do you think your role is or could be?
- How could you leverage your collective voice in the local response?

Public Health Internship



Department
of Health

About Us:

Our mission at the Ohio Department of Health (ODH) is advancing the health and well-being of all Ohioans. Our agency is committed to building a modern, vibrant public health system that creates the conditions where all Ohioans flourish.

What You'll Do:

The Public Health Laboratory is seeking a college intern to join our team. In this position you will gain hands on experience in both the Lab and the field assisting our entomologists to identify mosquito and tick-borne diseases. During your time you will gain insight into seasonal disease surveillance, laboratory operations, and epidemiology. Duties may include:

- Assist staff with identification of mosquito and tick species
- Assist Lab scientists with the testing of mosquito populations during arbovirus season
- Assist with data entry and reporting of testing results to local authorities

ATTENTION:

This is a temporary position. This position falls within the unclassified civil service status (ORC124.11 [a] [29]). Employees in the unclassified civil service of the state of Ohio serve at the pleasure of the appointing authority and may be removed from their unclassified position at any time for any legal reason.

Compensation, Hours & Unusual Working Conditions:

- Hourly rates: \$16.44/hr for UNDERGRADUATE students; \$19.99/hr for GRADUATE students.
- Overtime-eligible.
- These positions are part-time by definition, but please expect to work 40 hrs per week (Mon-Fri, 8A-5P) for duration of internship.
- **UNUSUAL WORKING CONDITIONS:** Exposed to potentially dangerous animals infected with rabies (e.g., raccoons); exposed to animal bites &/or scratches; exposed to infectious diseases such as La Crosse, St. Louis, West Nile or Eastern Equine Encephalitis, hantavirus &/or rabies.



[Careers | Ohio.gov](https://careers.ohio.gov)

**Contact us to
learn more!**



Visit our webpage:

<https://odh.ohio.gov/know-our-programs/health-equity>



Subscribe to our newsletter:

HEALTHOPPORTUNITY@ODH.OHIO.GOV



Send us an email:

HEALTHOPPORTUNITY@ODH.OHIO.GOV

Questions?

Myriam Shaw Ojeda

mshawojeda@ohiopharmacists.org