

UNDERSTANDING YOUR MARKET THROUGH A HEALTH EQUITY LENS

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TODAY'S WEBINAR

- > Rural America faces disproportionate social and economic disparities compared to urban settings, often leading to poor health outcomes for rural patients and their communities.
- > Now is the time to leverage data at the local level to begin to reduce healthcare disparities and develop interventions to improve health.
- > Today's webinar will address the following:
 - > Understand the importance of health equity and social determinants of health data
 - > Identifying what the data tells us about health disparities and priorities within a specific service area or county
 - > Appreciating how this data can support a health equity strategy and recognizing your Circle of Influence

HEALTH EQUITY AND SOCIAL DETERMINANTS OF HEALTH

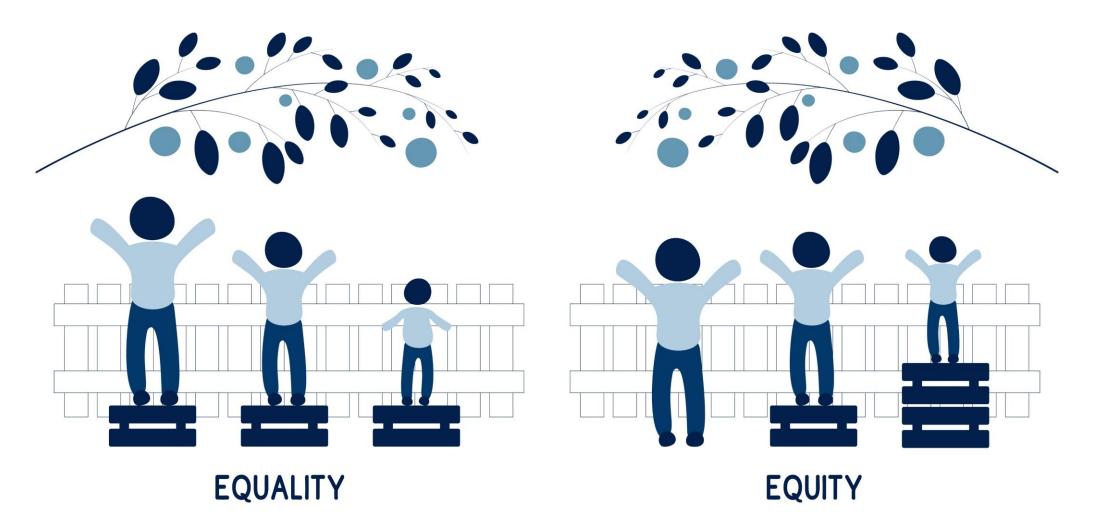
WHY HEALTH EQUITY DATA MATTERS

Unless specifically measured, **disparities in health and healthcare can go unnoticed** even as stakeholders seek to improve healthcare

Stratifying healthcare data by race, ethnicity, language and other demographic factors such as age, sex, health literacy, sexual orientation, gender identity, socioeconomic status and geography is **vital for understanding and addressing health disparities**

Healthcare organizations often **underestimate the magnitude of disparities** in their own patient populations, and they may be unaware of barriers patients face

Closely examining stratified quality and health outcome data is the **most reliable way to reveal the type and magnitude of disparity** and then **allocate or reallocate resources accordingly** EQUITY VS. EQUALITY



HEALTH EQUITY GENERALLY REFERS TO INDIVIDUALS ACHIEVING THEIR HIGHEST LEVEL OF HEALTH THROUGH THE ELIMINATION OF DISPARITIES IN HEALTH AND HEALTH CARE. (KFF.ORG)



HEALTH INEQUITY

- > Health inequities are unjust differences in health status due to things like discrimination, exclusion of certain groups of people, and lack of power and financial mobility
- The ability of people to access health services and to meet their basic needs (food, housing, etc.) are affected by:
 - > Income level
 - > Educational attainment
 - > Race/ethnicity
 - > Health literacy

HEALTH DISPARITIES TODAY IN RURAL AMERICA

Significant rural-urban disparity in life expectancy exists in the United States

A recent study of the five leading causes of death in the United States (heart disease, cancer, unintentional injury, chroniclower respiratory disease, and stroke) found that the **age-adjusted death rate for each was higher among rural residents**.

Higher rates of potentially excess deaths in rural communities.

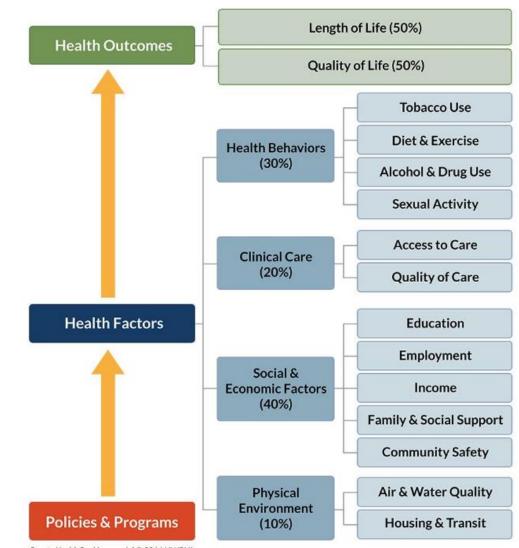
• The CDC consider excess deaths to include those that "might... be prevented through improved public health programs that support healthier behaviors and neighborhoods or better access to health care services."

Part of the challenge for understanding and improving the health of rural populations lies in **disentangling the underlying causes of their ill-health and death**, which is further complicated by the socioeconomic and geographic heterogeneity of rural places and populations.

Exacerbating efforts to tease out these differences, rural health experts have noted increasingly poor access to data on rural health, as financial issues and concerns for privacy have limited the availability of geographic indicators in many federal health surveys.

COUNTY HEALTH RANKINGS

- > The health of a community depends on many factors, including environment, education and jobs, access to and quality of healthcare, and individual behaviors
- > Our schools, workplaces, and neighborhoods all influence our health
- For some to achieve optimal health outcomes resources are readily available; for others, the opportunities are significantly limited.
 - > These limitations are directly related to the imbalance of policies, programs, and resource allocation.
- > Where does your county rank?



County Health Rankings model © 2016 UWPHI

SOCIAL DETERMINANTS OF HEALTH ("SDOH")

> The social determinants of health exemplify how multiple factors in a community can impact overall health including general well-being and health outcomes



Social determinants of health (SDOH) are, according to <u>Healthy People 2030</u>, "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"

HEALTH-RELATED SOCIAL NEEDS (HRSN)

- > HRSNs are a proximate cause of poor health outcomes for individual patients as opposed to SDOH, which is a term better suited for describing populations.
- Understanding individual patients' HRSNs can be critical for designing practical, patient-centered care plans.

A care plan for the control of diabetes may be unsafe for someone with food insecurity

Outpatient radiation therapy may be a challenge for someone who lacks reliable transportation to treatment



CMS – HEALTH EQUITY QUALITY MEASURES

- > To address health care disparities in hospital inpatient care and beyond, CMS is adopting three health equity-focused measures in the IQR Program.
- > The first measure assesses a hospital's commitment to establishing a culture of equity and delivering more equitable health care by capturing concrete activities across five key domains



> The second and third measures capture screening and identification of patient-level, health-related social needs — such as food insecurity, housing instability, transportation needs, utility difficulties, and interpersonal safety.

JOINT COMMISSION: REQUIREMENTS TO REDUCE HEALTHCARE DISPARITIES

The Standard includes the following Elements of Performance (EP):

- Designating an officer to lead a **strategy** for reducing health disparities.
- Screening patients for health-related social needs, also referred to as social determinants of health.
- Developing a written **action plan** that describes how it will address at least one of the health care disparities identified in its patient population.
- Identifying health care disparities in its patient population by **stratifying quality and safety data** using the sociodemographic characteristics.
- Acting when it does not achieve or sustain the goal(s) in its action plan to reduce health care disparities.
- At least annually, **informing key stakeholders**, including leaders, licensed practitioners, and staff, about its progress to reduce identified health care disparities.



USING HEALTH DATA TO UNDERSTAND COMMUNITY HEALTH

IMPORTANCE OF HEALTH DATA

- > Understanding the effects of health disparities in our communities is essential to fulfilling the mission and supports the IHI's Triple Aim:
 - > Improving the patient experience of care (including quality and satisfaction);
 - > Improving the health of populations; and
 - > Reducing the per capita cost of healthcare
- > Hospitals and health systems can identify health disparities by querying data sets to see how processes or outcomes differ by demographics or geography
- > One of the most basic inquiries a healthcare organization can make is to stratify a process or outcome by race, ethnicity and language, sexual orientation and gender identity, religion, age, gender, disability, employment, education, socioeconomic status, insurance status, geographic location, ZIP code or another demographic or socioeconomic variable
- > Mapping data shows inequities at the community level by overlaying health data onto maps and seeing which neighborhoods have a higher prevalence of certain diseases to figure out what populations may be at additional risk

DATA COLLECTION FRAMEWORK

- A uniform data collection framework provides a process improvement tool for health care organizations to systematically collect demographic data from patients or their caregivers. Using a uniform framework results in more accurate and complete data.
- > According to AHA's Institute for Diversity and Inclusion, the elements of a uniform framework include:
 - 1. A rationale for why the patient is being asked to provide this information.
 - 2. A script for staff to use each time so that they ask questions in a uniform fashion.
 - 3. A method for allowing patients to self-report their information.
 - 4. A standardized approach for "rolling up" granular responses to the U.S. Office of Management and Budget categories for analytical and reporting purposes.
 - Race: American Indian or Alaska Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, and White. Ethnicity: Hispanic or Latino and Not Hispanic or Latino
 - 5. Assurances that the data will be held confidential and that a limited number of people will have access to the data and a mechanism to ensure compliance.

DATA SETS

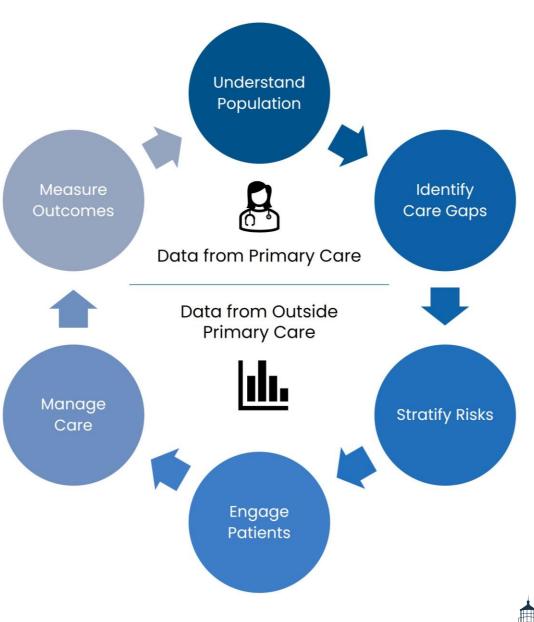
Internal

Data

- Referral information
- Utilization
- Clinical outcomes
- SDOH (food security, housing, employment)

External Data

- Health information exchanges (HEIs)
- State & Federal data sets
- Claims data



USING ICD-10 DATA TO IDENTIFY COMMUNITY NEEDS

- Every hospital/healthcare provider has access to their community's health data through the medical coding system ICD-10, which they must use to submit claims to payers
- In ICD-10, Social Determinants of Health (SDOH codes) are found in categories Z55-Z65:
 - > Z55, Problems related to education and literacy
 - > Z56, Problems related to employment and unemployment
 - > Z57, Occupational exposure to risk factors
 - > Z58, Problems related to physical environment
 - > Z59, Problems related to housing and economic circumstances
 - > Z60, Problems related to social environment
 - > Z62, Problems related to upbringing
 - > Z63, Other problems related to primary support group, including family circumstances
 - > Z64, Problems related to certain psychosocial circumstances
 - > Z65, Problems related to other psychosocial circumstances

Understand how SDOH data can be gathered and tracked using ICD-10 Z codes

IDENTIFY AND UNDERSTAND HEALTH INEQUITIES

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Do not rely on assumptions about what health inequities exist in your community



Gain a comprehensive understanding of the identified health inequities

Examine multiple aspects of health in your community to get a clearer picture of health inequities



Use appropriate tools to identify health inequities



Engage community members and partners in data collection and interpretation



"What gets measured gets improved" – Peter Drucker

USING DATA TO IDENTIFY INEQUITIES: QUERY EXAMPLES

PROCESS query examples (treatment, procedure, encounter)

- Percentage breakdown by race of female patients who were screened for breast cancer
- Percentage of male patients who had a colonoscopy, by ethnicity
- Percentage of patients with chronic health conditions who filled prescriptions, by ZIP code

OUTCOME query examples

- Breakdown of readmitted patients by insurance status
- Ethnicity breakdown of patients who suffered a fall during an inpatient stay
- Breakdown of Hispanic patients hospitalized for COVID-19, by English-speaking and non-English-speaking



WHAT DOES THE DATA TELL US ABOUT OUR COMMUNITY?

CENTER FOR APPLIED RESEARCH AND ENGAGEMENT (CARES)

The Center for Applied Research and Engagement Systems (CARES) is affiliated with the University of Missouri system. CARES helps organizations and planners learn more about their community by providing access to data from the US Census Bureau, American Community Survey (ACS), Centers for Disease Control and Prevention (CDC), United States Department of Agriculture (USDA), Department of Transportation, Federal Bureau of Investigation, and more. These data focus on health, the environment, the economy, education, agriculture, and safety.



- Data geographies range from national, state, county, city, census tract, school district, and ZIP code levels
- > The data supplied by CARES are timely and reliable. Where applicable, the data allow for breakouts of information and incidences by detailed racial, ethnic, and socioeconomic categories.

CARES DASHBOARD COMPONENTS/ELEMENTS

CARES data include nearly 650 individual indicators, organized by the following categories: Clinical Care and Prevention, Demographics, Education, Health Behaviors, Health Outcomes, Healthcare Workforce, Housing and Families, Income and Economics, Other Social and Economic Factors, Physical Environment, and Special Topics (currently focused on COVID-19 metrics).

Stroudwater's dashboard dropdown menus and radio buttons allow the user to quickly focus on each individual indicator under these categories

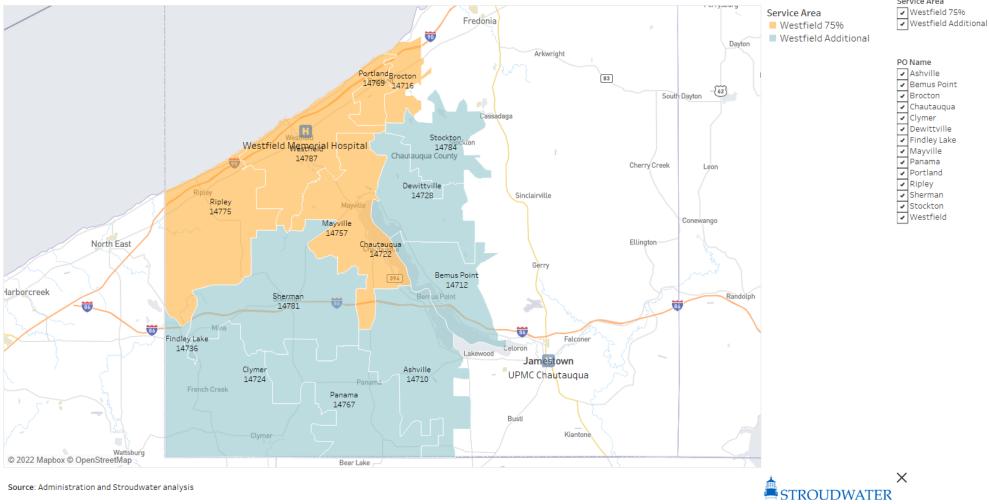
The dashboard includes data for the aggregate custom report area, the county or counties related to the custom geography, the state benchmarks, and national benchmarks

For comparison purposes, most indicators focus on percentages of or rates per a defined population. Where applicable, whole number values are shown.

Some indicators allow for ZIP Code-level breakdowns of the data. A separate tab mapping these comparisons is included.

SERVICE AREA

Service Area Map



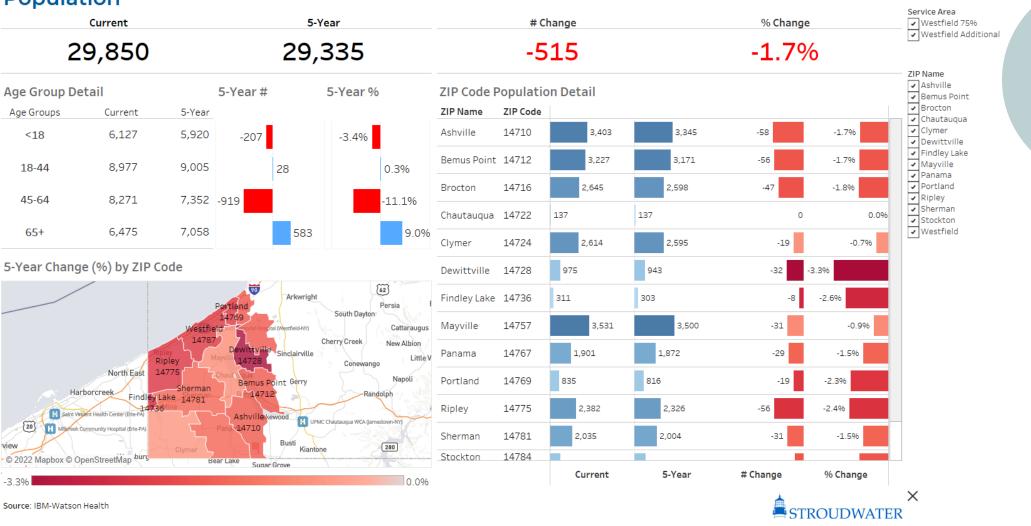
X Service Area ✔ Westfield 75%

Define a

service area

POPULATION

Population



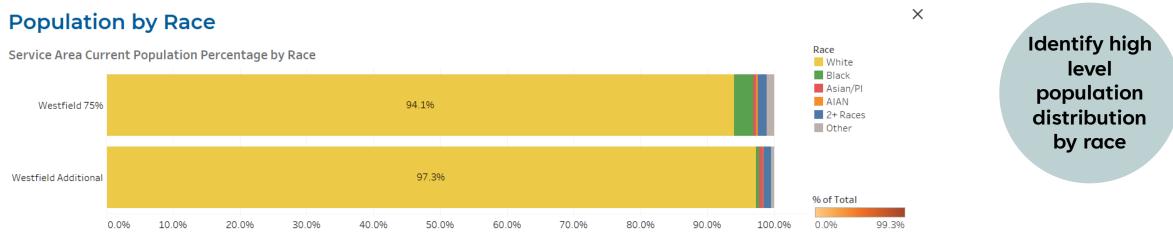
Identify total population, age cohorts and projected change by **ZIP** Code

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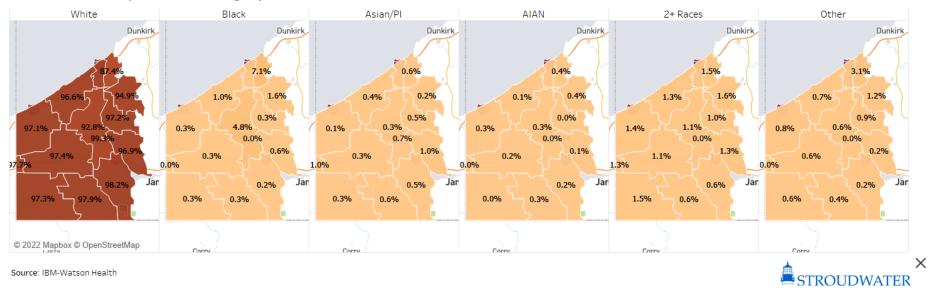
Source: IBM-Watson Health

24

POPULATION BY RACE

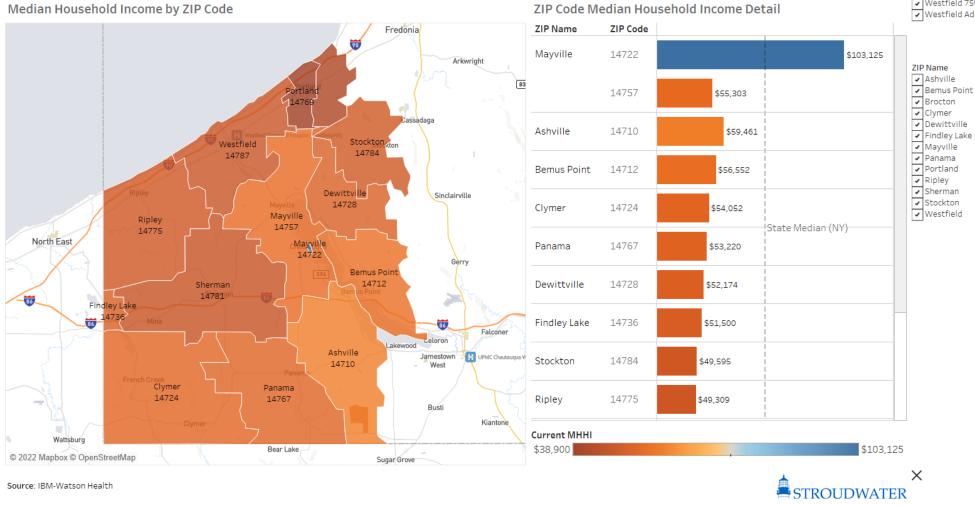


ZIP Code Current Population Percentage by Race



MEDIAN HOUSEHOLD INCOME

Median Household Income



X Service Area

✔ Westfield 75% ✓ Westfield Additional

Evaluate areas with higher and **lower MHHI**

Source: IBM-Watson Health

DEMOGRAPHICS

Category Demographics Demographics Black or African American Population Data Indicator Black or African American Population Indicator Variable Location Citizenship Status Families with Children Female Population 2 County Service Area 0.01 Foreign-Born Population Group Quarters Population Hispanic Population Male Population Median Age Campbell County, TN 0.00 Migration Patterns - Total Population Migration Patterns - Young Adult Non-Hispanic White Population Population Age 0-4 Population Age 5-17 Population Age 18-24 Whitley County, KY 0.01 Population Age 18-64 Percent Population Population Age 25-34 Population Age 35-44 Black or African Population Age 45-54 American Population Age 55-64 0.17 Tennessee Population Age 65+ Population Geographic Mobility Population in Limited English Households Indicator Variable All 0.08 Kentucky 0.13 USA 0.00 0.02 0.04 0.06 0.08 0.10 0.12 0.14 0.16 0.18

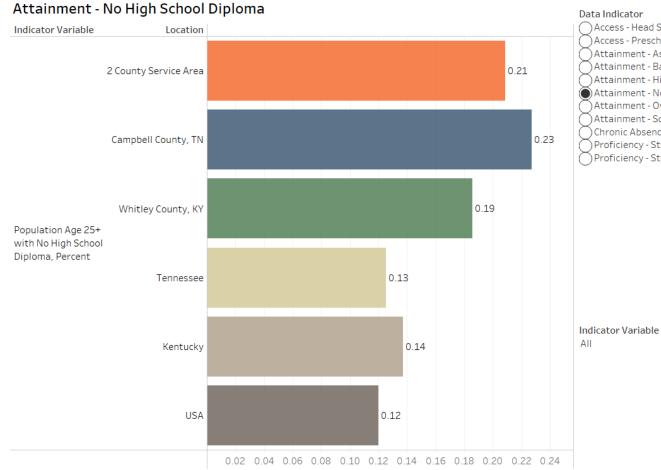
Multiple demographic categories are included

Data Source: US Census Bureau, American Community Survey. 2015-19. Source geography: Tract

27

EDUCATION

Education



Note: This indicator is compared to the lowest state average. Data Source: US Census Bureau, American Community Survey. 2015-19. Source geography: Tract

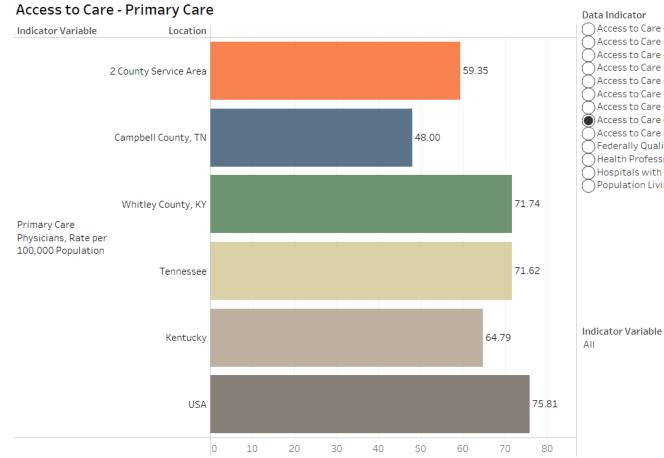
Category Education

Access - Head Start Access - Preschool Enrollment (Age 3-4) Attainment - Associate's Level Degree or Higher Attainment - Bachelor's Degree or Higher Attainment - High School Graduation Rate Attainment - No High School Diploma Attainment - Overview Attainment - Some Post-secondary Education Chronic Absence Rate Proficiency - Student Math Proficiency (4th Grade) Proficiency - Student Reading Proficiency (4th Grade) Indicators highlight differences in educational attainment and proficiencies among the population



HEALTHCARE ACCESS

Healthcare Workforce



Note: This indicator is compared to the highest state average. Data Source: US Department of Health & Human Services, Health Resources and Services Administration, HRSA - Area Health Resource File. Accessed via County Health Rankings. 2017. Source geography: County

Category Healthcare Workforce

Data Indicator

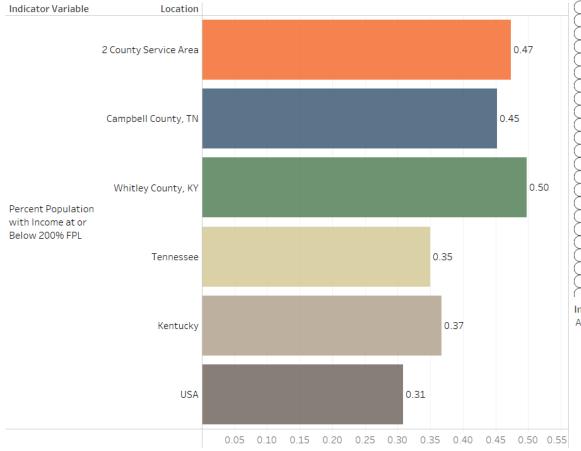
Access to Care - Addiction/Substance Abuse Providers Access to Care - Buprenorphine Providers Access to Care - Dental Health Access to Care - Dental Health Providers Access to Care - Mental Health Access to Care - Mental Health Providers Access to Care - Nurse Practitioners Access to Care - Primary Care Access to Care - Primary Care Providers Federally Qualified Health Centers Health Professional Shortage Areas - Dental Care Hospitals with Cardiac Rehabilitation Units Population Living in a Health Professional Shortage Area

Healthcare access comparison to state and national averages spotlight disparities

INCOME AND ECONOMICS

Income and Economics

Poverty - Population Below 200% FPL



Note: This indicator is compared to the lowest state average. Data Source: US Census Bureau, American Community Survey. 2015-19. Source geography: Tract

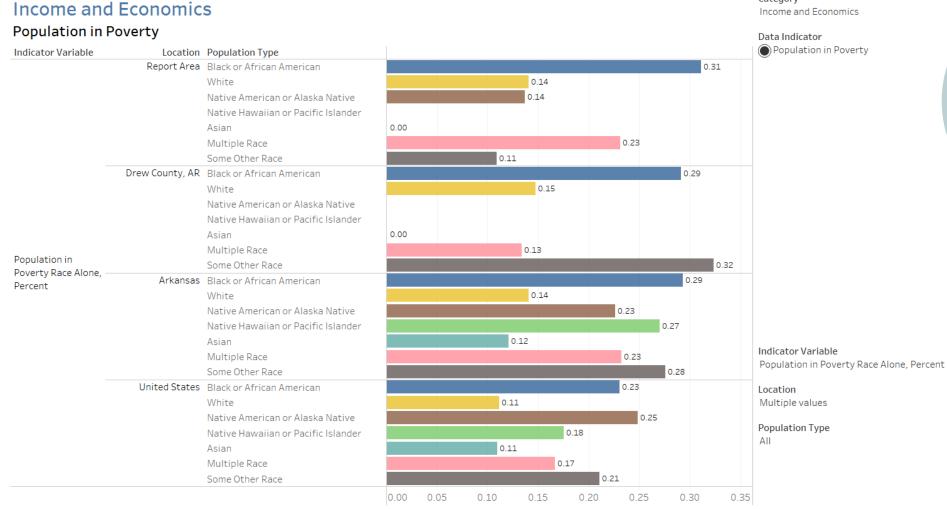
Category Income and Economics

Data Indicator

Commuter Travel Patterns - Driving Alone to Work Commuter Travel Patterns - Long Commute Commuter Travel Patterns - Overview Commuter Travel Patterns - Overview 2 Commuter Travel Patterns - Public Transportation Commuter Travel Patterns - Walking or Biking Employment - Business Creation Employment - Employment Change Employment - Labor Force Participation Rate Employment - Unemployment Rate Gross Domestic Product (GDP) Income - Families Earning Over \$75,000 Income - Income and AMI Income - Inequality (Atkinson Index) Income - Inequality (GINI Index) Income - Median Family Income Income - Median Household Income) Income - Net Income of Farming Operations Income - Proprietor Employment and Income Income - Public Assistance Income Income - Transfer Payments Poverty - Children Below 100% FPL Poverty - Children Below 200% FPL Indicator Variable AII

Poverty and other income indicators show the special economic obstacles a sizable portion of the population may be facing

RACE AND ETHNICITY



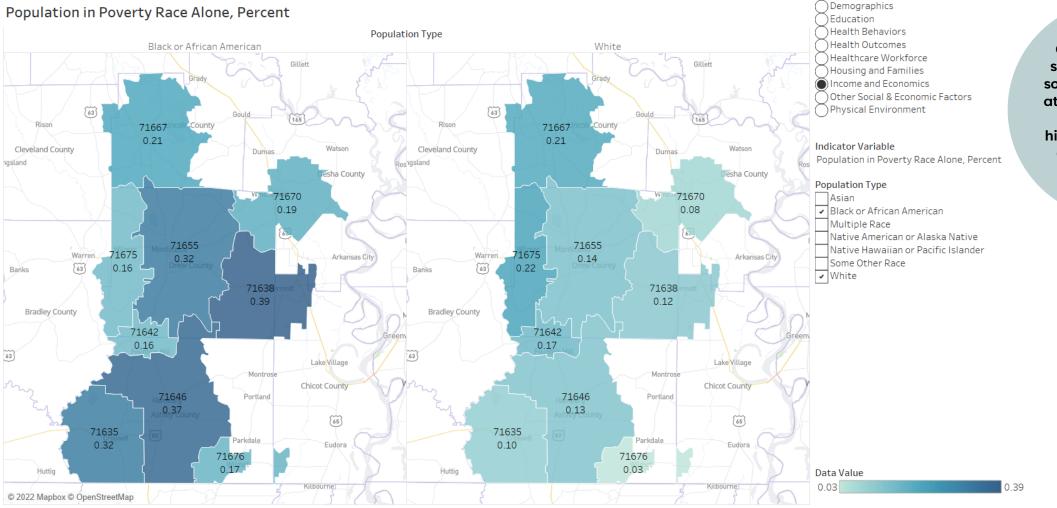
Category

Detailed racial and ethnic economic indicators show disparities among the population

ZIP CODE LEVEL DATA

Income and Economics

Population in Poverty Race Alone, Percent



Certain indicators show racial/ethnic/ socioeconomic detail at the ZIP Code level, which can help highlight geographic areas of focus for health providers

Category

Clinical Care and Prevention

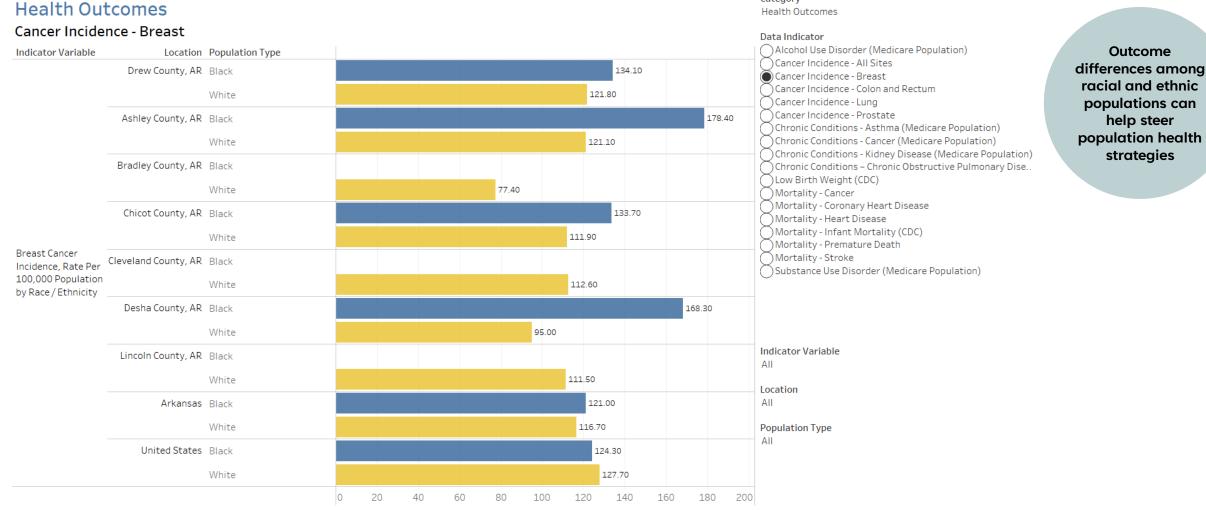
CLINICAL CARE AND PREVENTION

Clinical Care and Prevention Prevention - High Blood Pressure Management Data Indicator Indicator Variable Location Population Type 34.80 Drew County, AR Black or African American 28.20 Non-Hispanic White Ashley County, AR Black or African American 34.00 Non-Hispanic White 27.60 Bradley County, AR Black or African American 34.30 27.50 Non-Hispanic White Chicot County, AR Black or African American 33.90 Non-Hispanic White 27.10 Blood Pressure Cleveland County, AR Black or African American Medication Nonadherence by 27.40 Non-Hispanic White Race/Ethnicity Desha County, AR Black or African American 36.40 Non-Hispanic White 30.10 Indicator Variable Lincoln County, AR Black or African American 33.50 All 29.70 Non-Hispanic White Location 33.30 All Arkansas Black or African American Non-Hispanic White 24.80 Population Type All United States Black or African American 29.80 Non-Hispanic White 20.30 0 5 10 15 20 25 30 35 40

Category Clinical Care and Prevention

Hospitalizations - Preventable Conditions Prevention - Annual Wellness Exam (Medicare) Prevention - High Blood Pressure Management Prevention - Recent Primary Care Visit (Medicare) Clinical care prevention detail shows gaps in racial and ethnic populations

HEALTH OUTCOMES



Category

Note: This indicator is compared to the lowest state average. Data Source: State Cancer Profiles. 2014-18. Source geography: County

ADDITIONAL DATA SOURCES

Health research and Statistics

Federal Level: CDC, US Census

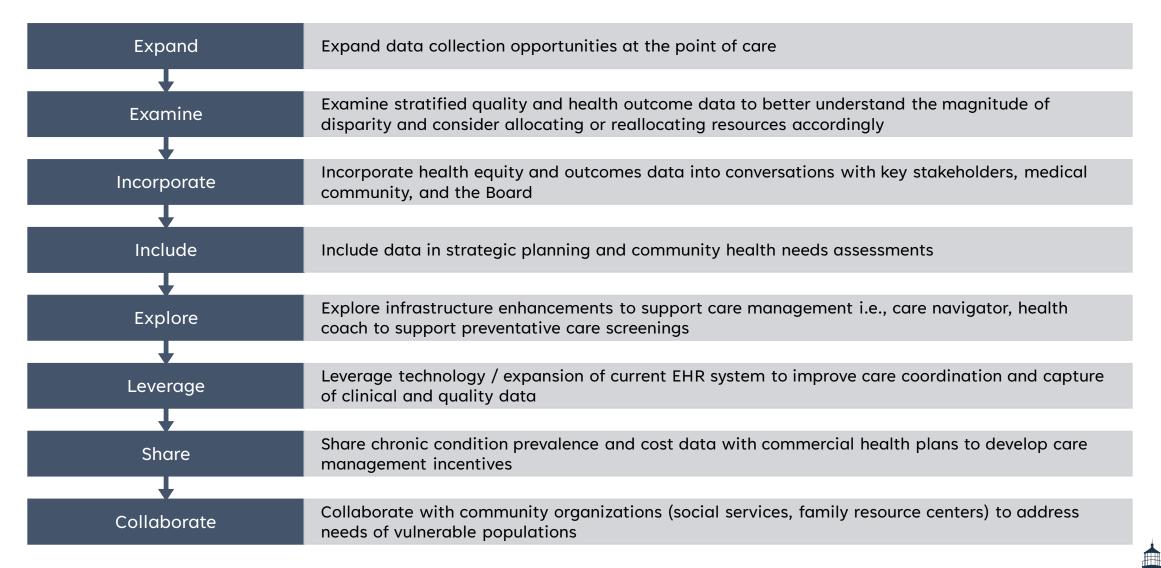
State Level: Monitoring Data

Local Level: Public health department



HEALTH EQUITY STRATEGY

HEALTH EQUITY & SDOH STRATEGY



37

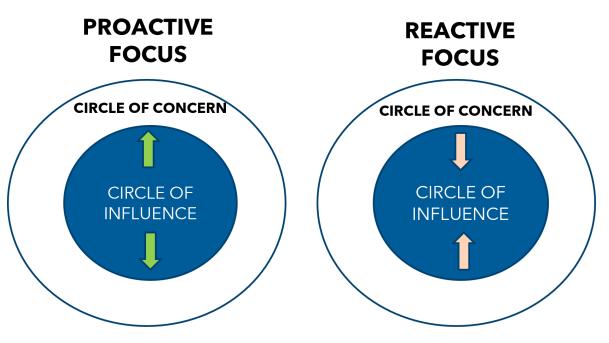
Stephen Covey's book The 7 Habits of Highly Effective People (1989) distinguishes between proactive people – who focus on what they can do and can influence – and reactive people who focus their energy on things beyond their control.

> Circle of concern: many of these things are outside your influence. Devoting energy to them may be a waste of time.

> Circle of influence: includes the things we can do something about. The key is to focus your energy on things you can influence – this will enable you to make effective changes.

A team can have a wider circle of influence than an individual

CIRCLE OF INFLUENCE



COVEY'S CIRCLES OF INFLUENCE



CONCLUSION

COVID-19 raised public awareness of racial and ethnic disparities in health and health care to a new and uncomfortable level. Leading hospitals and health systems to use data to rectify long-standing problems in their communities.

Unless specifically measured, disparities in health and healthcare can go unnoticed even as stakeholders seek to improve healthcare. Closely examining stratified quality and health outcome data is the most reliable way to reveal the type and magnitude of disparity and then allocate or reallocate resources accordingly.

