

Arizona Specialty Hospital Arizona Spine and Joint Hospital East Valley Rehabilitation Hospital OASIS Hospital

Dignity Health Arizona Joint Ventures

Community Health Needs Assessment 2022

Adopted June 2022



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Executive Summary

CHNA Purpose Statement

The purpose of this community health needs assessment (CHNA) is to identify and prioritize significant health needs of the community served by Dignity Health Arizona's Joint Venture Hospitals. These include Arizona Specialty Hospital, Arizona Spine and Joint Hospital, East Valley Rehabilitation Hospital, and OASIS Hospital. Throughout this report, these hospitals will be referred to as Joint Venture Hospitals (JVHs). The priorities identified in this report help to guide the hospitals' community health improvement programs and community benefit activities, as well as their collaborative efforts with other organizations that share a mission to improve health. This CHNA report meets requirements of the Patient Protection and Affordable Care Act that non-for-profit hospitals conduct a community health needs assessment at least once every three years.

CommonSpirit Health Commitment and Mission Statement

The hospitals' dedication to engaging with the community, assessing priority needs, and helping to address them with community health program activities is in keeping with its mission. As CommonSpirit Health, we make the healing presence of God known in our world by improving the health of the people we serve, especially those who are vulnerable, while we advance social justice for all.

CHNA Collaborators

The ACA requirements are mirrored in the Public Health Accreditation Board's (PHAB) standard mandating that health departments participate in or conduct a community health assessment every three to five years. Limited resources for comprehensive health assessments and the move toward new population health models have created the need for an organized, collaborative, public-private approach for conducting assessments. As a result, the Synapse Partnership (Banner Health, Dignity Health, Mayo Clinic Hospital, Native Health, Neighborhood Outreach Access to Health (NOAH), Phoenix Children's Hospital, and Valleywise Health) has joined forces with the Health Improvement Partnership of Maricopa County (HIPMC) and Maricopa County Department of Public Health (MCDPH) to identify the communities' strengths and greatest needs in a coordinated community health needs assessment. Dignity Health, participates in Synapse and contracted with MCDPH to lead the development of the CHNA report. With input from Synapse, MCDPH spearheaded development of the CHNA survey, and partnered with many diverse local community-based organizations to provide stipends for survey translation, distribution, and promotion. MCDPH contracted with Arizona State University Southwest Interdisciplinary Research Center (ASU SIRC) to conduct and analyze focus groups.

Community Definition

The Joint Venture Hospitals' community defined in this report spans the entirety of Maricopa County, the fourth most populous county in the United States. However, some of the joint venture hospitals' service areas extend beyond Maricopa County. Therefore, in addition to Maricopa County data, Arizona-specific data will be presented.

With an estimated population of over 4.3 million and growing, Maricopa County is home to well over half of Arizona’s residents. Maricopa County encompasses 9,224 square miles, includes 27 cities and towns, as well as the whole or part of five sovereign American Indian reservations.ⁱ Maricopa County is ethnically and culturally diverse, as it is home to more than 1.3 million Hispanic/Latino individuals (31% of all residents); 302,042 Black/African Americans; 233,328 Asian Americans; and 124,128 American Indians.ⁱ According to the U.S. Census Bureau, 15% percent of the population does not have a high school diplomaⁱⁱ, 14% are living below the federal poverty levelⁱⁱⁱ, and over 456,584 are uninsured.^{iv} The state of Arizona has an estimated population of 7,050,299. With a growing population, Arizona is becoming more diverse and is currently home to over 2.2 million Hispanic/Latino individuals, 405,266 Black/African Americans, 310,727 Asian Americans, 399,151 American Indian/Alaska Natives, and over 5.6 million Caucasian/Whites.^v

Located in the state of Arizona, most of the service areas served by the joint venture hospitals are within Maricopa County. The Joint Venture Hospitals’ primary service area is within the urban inner-city areas, and it also serves the suburban and rural communities for high-risk services.

Assessment Process and Methods

Dignity Health Arizona Joint Venture Hospitals are very closely aligned with St. Joseph Hospital and Medical Center (SJHMC) in Phoenix. The Community Benefit Team at SJHMC developed this CHNA with several community partners and in collaboration with the JVHs.

Health needs were identified through the combined analysis of primary and secondary data with four rounds of community input. **Primary data sources** include the 2019 and 2021 community surveys and focus groups. **Secondary data sources** include health and social indicators from local, state, and sources that encompass health outcomes, economic factors, health behaviors, physical environment, and health care. The first round of community data collection occurred in the fall of 2019 and involved a community survey as well as a series of focus groups. In response to the severe changes in the community health landscape due to the COVID-19 pandemic, a supplemental survey and focus group cycle was conducted in the summer of 2021. Local organizations including the Community Benefit Team partnered with MCDPH to recruit members of diverse communities to take the surveys. In both rounds of data collection, focus groups included representatives of minority and underserved populations who identified community concerns and assets.

Data was analyzed by MCDPH and shared with the Synapse group, as well as representatives from the community, healthcare organizations, and other local initiatives. Through a structured feedback process, the data was narrowed down to eight priorities of focus for the Joint Venture Hospitals.

Process and Criteria to Identify and Prioritize Significant Health Needs

The Community Benefit Team’s process and criteria to identify significant health needs was inclusive of the JVHs. The health needs prioritization process began with an initial review and analysis of primary and secondary data sources. Primary sources included data that was derived from the 2019 and 2021 community survey and focus group sessions. Secondary sources included data that was derived from County inpatient hospitalization, emergency department, and death rates to assemble 27 total health indicators. Additionally, external data sources such as PolicyMap were utilized to analyze and highlight seven social indicators. The health and social indicators were established in collaboration with the SJHMC Community Benefit Team by selecting indicators of interest that have historically demonstrated high rates or have known disparities when broken out by race/ethnicity, gender, and age.

Primary and secondary data sources were presented at four meetings with two different “community groups”, the Community Benefit and Health Equity Committee (CBHEC) and the Health Equity Alliance (HEA). The CBHEC is a subcommittee of the SJHMC Community Board, comprised of members who provide stewardship and direction for the hospital as a community resource. The HEA is a large group of community organizations that the community benefit staff bring together quarterly to work on the shared goal of improving the health and well-being of Maricopa County residents while reducing health disparities.^{vi} Delivered data presentations were interactive, embedding virtual polling and breakout sessions which opened an opportunity for the community to share their voices into the refinement and prioritization process of significant health needs for the Joint Venture Hospitals. All feedback received from CBHEC and HEA meetings was compiled and evaluated through a health equity lens, which led to the prioritization of eight significant health needs.

List of Prioritized Significant Health Needs

The following statements summarize each of the areas of priority for the JVHs and are based on data and information gathered through the CHNA.



Mental Health

Mental health was selected as a top priority issue for the JVHs. Mental health includes emotional, psychological, and social well-being, and affects how individuals think, feel, and act.^{vii} In the 2021 COVID-19 impact survey, almost half of Maricopa County residents noted that in addition to COVID-19, mental health issues were one of the health conditions that had the greatest impact on the community’s overall health and wellness. In the 2019 and 2021 focus groups, mental health including suicide, depression, anxiety, and isolation was noted as a frequently cited community concern.



Chronic Health Conditions

Chronic health conditions (obesity, diabetes, and cardiovascular disease) were selected as priority issues for the JVHs. In the 2021 COVID-19 impact survey, Maricopa County residents ranked obesity as the second, diabetes as the fifth, and CVD as the seventh most important

health conditions in their community. The 2019 focus group participants also mentioned high blood pressure/cholesterol, diabetes, and overweight/obesity as some of the greatest threats to community health.

- **Obesity** is a complex health issue resulting from a combination of causes and individual factors such as behavior and genetics. Behaviors can include physical activity, inactivity, dietary patterns, medication use, and other exposures.^{viii}
- **Diabetes** is a chronic, metabolic disease characterized by elevated levels of blood glucose (or blood sugar). The most common is type 2 diabetes and simple lifestyle measures such as being physically active, consuming a healthy diet, and avoiding tobacco use have been shown to be effective in preventing or delaying the onset of this disease.^{ix}
- **Cardiovascular Diseases (CVDs)** are a class of diseases that affect the heart or blood vessels. The most important behavioral risk factors of heart disease and stroke are unhealthy diet, physical inactivity, tobacco use and harmful use of alcohol.^x



Addiction/Substance Abuse

Addiction/substance abuse was selected as a priority issue for the JVHs. Substance abuse is caused by multiple factors, including genetic vulnerability, environmental stressors, social pressures, individual personality characteristics, and psychiatric problems. In the 2021 COVID-19 impact survey, alcohol/substance abuse was ranked as the third most important health condition that had the greatest community impact. In the 2019 focus groups and supplemental survey, alcohol and substance abuse were rated as top threats to community health.



Cancer

Cancer was selected as a priority issue for the JVHs, particularly lung and breast cancer. Cancer is a large group of diseases that can start in almost any organ or tissue of the body when abnormal cells grow beyond their usual boundaries to invade adjoining parts of the body and/or spread to other organs.^{xi} In the 2021 COVID-19 impact survey, Maricopa County residents noted that in addition to COVID-19, cancers were ranked in the top ten health conditions that had the greatest impact in their community. In 2019 focus groups, cancer was noted as one of the greatest threats to community health.



Affordable Housing/Homelessness

Affordable housing/homelessness was selected as a priority issue for the JVHs. Housing is often identified as an important social determinant of health due to the range of ways in which a lack of housing, or poor-quality housing, can negatively affect health and wellbeing. In the 2021 COVID-19 impact survey, almost one fifth of residents in Maricopa County noted that since March of 2020, they did not have enough money to pay for essentials such as housing. Affordable housing and homelessness were frequently cited concerns mirrored in the 2019 and 2021 focus groups.



Access to Healthcare

Access to healthcare was selected as a priority issue for the JVHs. Health insurance helps individuals and families access needed primary care, specialists, and emergency care.^{xii} In the 2021 COVID-19 impact survey, Maricopa County residents noted that since March of 2020, one of the top five barriers to seeking or accessing healthcare was difficulty finding the right provider for their care. In the 2019 and 2021 focus groups, participants shared several major barriers to healthcare access including financial limitations, transportation, insurance, inconvenience, communication issues, lack of awareness of existing services and resources, and lack of cultural understanding and sensitivity.

- **Maternal and Child Health** - Maternal health refers to the health of women during pregnancy, childbirth, and the postnatal period. There are opportunities at each stage provide support so that ensuring women and their babies reach their full potential for health and well-being.^{xiii} In the United States, women of color face increased instances of inadequate prenatal care, preterm delivery, and maternal mortality and morbidity.^{xiv}
- **Financial Security** – Health care expenses can be a major burden for vulnerable communities. Financial barriers can create issues with access to care, quality of care received, and overall well-being.



Food Insecurity

Food insecurity was selected as a priority issue for the JVHs. The causes of food insecurity are complex, but some may include poverty, unemployment, low income, lack of affordable housing, chronic health conditions and lack of access to healthcare.^{xv} In the 2021 COVID-19 impact survey, Maricopa County residents noted food was one of the top five essentials that they sometimes or never had enough money to pay for since March of 2020. In the 2021 focus groups, getting enough food to eat was distinguished as one of the largest quality of life challenges that respondents experienced during the COVID-19 pandemic.



Safety & Violence

Safety and violence was selected as a priority issue for the JVHs. Injuries and violence are a significant cause of death burden of disease, and some people are more vulnerable than others depending on the conditions in which they are born, grow, work, live and age. In both the 2019 focus groups and the 2021 COVID-19 impact survey, Maricopa County residents noted domestic violence/sexual assault as one of the top ten issues that had the greatest impact on their community's health and wellness.

- **Unintentional Injuries** – Many unintentional injuries can be predictable and preventable. Leading causes of nonfatal injury include traffic-related injuries, falls, burns, poisonings, and drownings.

Prioritized Health Needs: Disparities

Using a Health Equity Lens: “Health equity means that everyone has a fair and just opportunity to be healthier. This requires removing obstacles to health such as poverty, discrimination, and their consequences, including powerlessness and lack of access to good jobs with fair pay, quality education and housing, safe environments, and health care” (Robert Wood Johnson Foundation). The JVHs are dedicated to improving access to care and promoting health equity for across all prioritized significant health needs.



Mental and Behavioral Health – In 2019, men had higher rates of inpatient hospitalization and emergency department visits than women.^{xxix}



Chronic Health Conditions – In 2019, Black/African Americans followed by American Indians had the highest inpatient hospitalization rates.^{xxix}



Addiction/Substance Use – In 2019, American Indians had the highest death rate for unintentional drug overdoses and the highest rate for alcohol-related hospitalization.^{xxix, xxx}



Cancer – From 2014-2018, the rate for all types of cancer was greatest among White/Caucasians.^{xvi}



Housing/Homelessness – From 2015-2019, 58.3% of Maricopa County renters and 54.2% of Arizona renters aged 65+ were considered cost-burdened (rent is 30% or more of household income).^{xlviii}



Access to Healthcare – In 2019, 14.1% of Maricopa County adults and 14.2% of Arizona adults under the age of 65 were uninsured.^{xlviii}



Food Insecurity – Since the beginning of the pandemic, 32% of Arizona households experience food insecurity compared to 25% the year prior.^{lvii}



Safety & Violence – In 2019, violence-related emergency department visits were highest among Black/African Americans and American Indians.^{xxix}

Resources Potentially Available

The Community Benefit Team has developed a strong network of local partners who are specifically positioned to address some of the health needs identified; this network of partners is also available to the JVHs. Organizations who work in the access to care space include health insurance providers; direct services including mobile health, maternal health, preventative screening, and postpartum substance use recovery; employment and rental assistance; and healthcare navigators including community health workers, senior care resources, and programs that focus on Native American and Latino/Hispanic populations. Affordable housing/homelessness resources include 21 local organizations focused on transitional housing, food access, and emergency shelter. Partners working on food insecurity provide services from meal preparation and delivery to community gardening to food pantry access. The Community Benefit Team coordinates with eight domestic violence and human trafficking partners to combat safety & violence.

Along with providing direct services for mental health, chronic health conditions, substance abuse, and cancer, the Community Benefit Team partners with many local organizations to provide continuity of care for patients. These include over 15 organizations focused on serving and supporting diverse populations, providing education and counselling, navigating healthcare systems, and leading prevention initiatives. Overall, the Community Benefit Team continues to develop and leverage these networks to reach the community.

Report Adoption, Availability, and Comments

This CHNA report was adopted by the JVHs community board in June 2022. The report is widely available to the public on the hospital's web site, and a paper copy is available for inspection upon request at SJHMC Community Benefit Team and on the JVHs websites. Written comments on this report can be submitted to the Community Benefit and Health Equity Department at 3033A N. 7th Avenue, Phoenix, Arizona 85013 or by email to CommunityHealth-SJHMC@DignityHealth.org.

Community Definition



Dignity Health Arizona's Joint Venture Hospitals' community is defined as Maricopa County. However, some service areas of the joint venture hospitals do extend beyond Maricopa County. Therefore, throughout this report Arizona-specific data will also be presented where it's available.

Maricopa County in addition to the state of Arizona was chosen as the community definition due to the broad range of Dignity Health Arizona Joint Venture Hospital's service area. Figure 1 below encompasses the patient zip codes serviced by the JVHs – which span within and outside of Maricopa County. The JVH's primary service area-specific information is also provided when available.

Maricopa County is the fourth most populous county in the United States. Based on 2019 American Community Survey (ACS five-year estimates, Maricopa County has an estimated population of over 4.3 million and growing, home to well over half of Arizona's residents. Maricopa County encompasses 9,224 square miles, includes 27 cities

and towns, as well as the whole or part of five sovereign American Indian reservations. A list of all Maricopa County zip codes is located in Appendix D.

The JVHs serve patients across and outside of Maricopa County, hence the community definition also extends into the state of Arizona. Arizona's population in 2019 was 7,050,299 with a median age of 37.7. The state of Arizona is made up of predominantly Caucasian/White individuals (77.2%), followed by Latino/Hispanic (31.3%), Black/African American (5.7%), Asian (4.4%), American Indian/Alaska Native (5.7%), and Native Hawaiian and Other Pacific Islander (0.5%).^{xvii} In 2019, the median household income in Arizona was \$58,945 with a poverty rate of 15.1%.^{xviii, xix} The educational attainment statistics in Arizona in 2019 were as follows: less than high school graduate (15.6%), high school graduate (33.1%), some college/associate's degree (43.0%), and bachelor's degree or higher (8.4%).^{xx}

Arizona Specialty Hospital

Arizona Specialty Hospital is physically located in the City of Chandler, AZ. Arizona Specialty Hospital's primary service area is all of Maricopa County and extends a bit beyond the County lines, including the following zip codes 85122, 85138, 85140, 85139, 85123, 85132, 85194, 85143, and 85120.

Arizona Spine & Joint Hospital

Arizona Spine & Joint Hospital is physically located in the City of Mesa, AZ. Arizona Spine & Joint Hospital's primary service area is all of Maricopa County and extends a bit beyond the County lines, including the following zip codes 85122, 85138, 85140, 85139, 85123, 85132, 85194, 85143, and 85120.

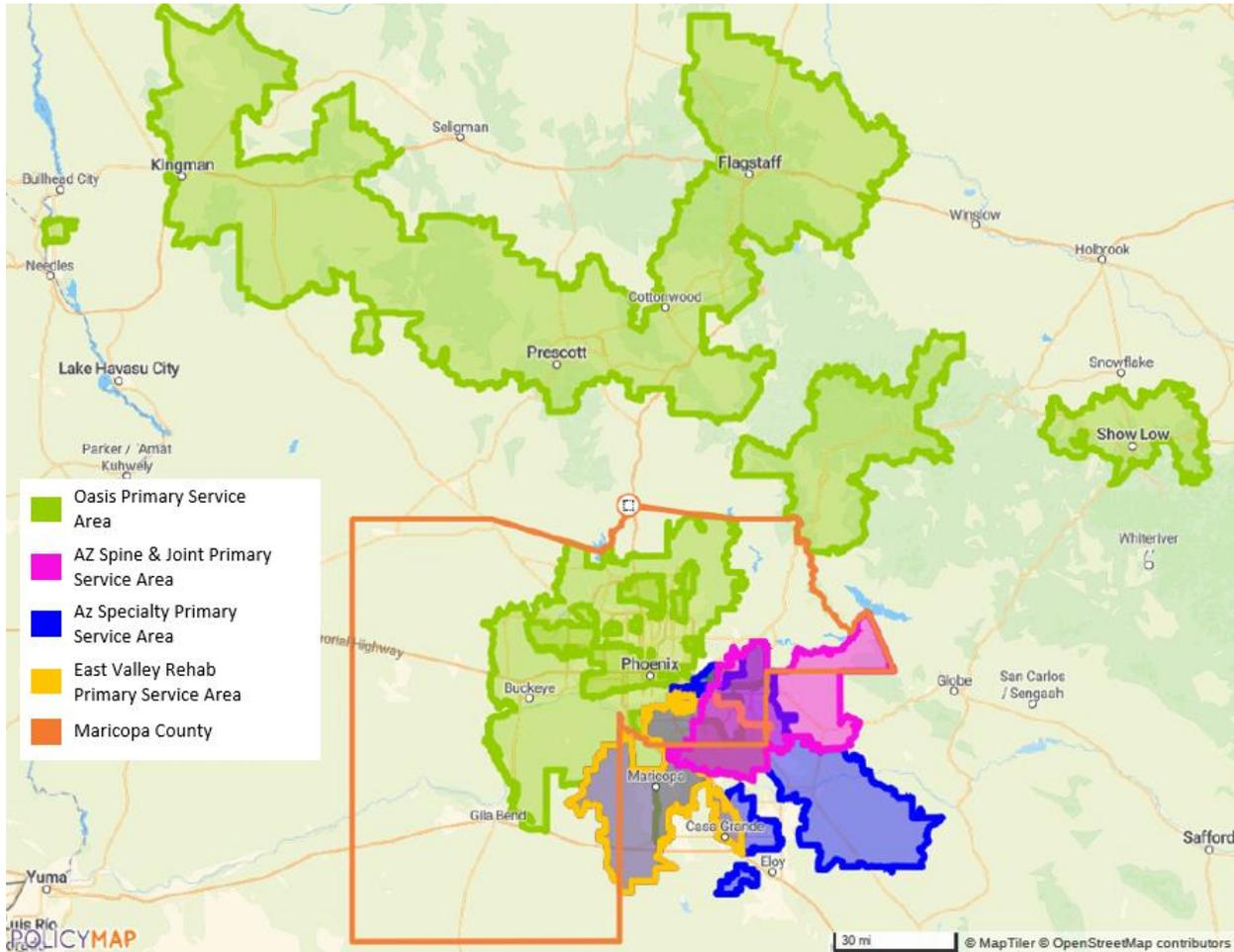
East Valley Rehabilitation Hospital

East Valley Rehabilitation Hospital is physically located in the City of Chandler, AZ. East Valley Rehabilitation Hospital's primary service area is all of Maricopa County and extends to the following zip codes 85138, 85122, and 85139.

Oasis Hospital

OASIS Hospital is physically located in the City of Phoenix, AZ. OASIS Hospital's primary service area is all of Maricopa County and extends a bit beyond the County lines, including the following zip codes 86004, 86336, 86001, 86351, 86314, 86401, 86305, 86323, 85325, 86303, 86327, 86315, 85541, 86409, 85138, 86322, 86005, 86426, and 85901.

Figure 1. Dignity Health Arizona Joint Venture Hospitals Service Areas in Maricopa County



For this report, the focus will be on the geographic area of Maricopa County and Arizona when available since the JVs serve zip codes within Maricopa County. A list of all Maricopa County zip codes is located in Appendix D.

Primary Care Area (PCA) Statistical Profiles are revised annually and provide detailed information on the demographics, health resources, hospital utilization, and health status indicators in defined geographic areas throughout Arizona. According to the 2020 Arizona Department of Health Services (ADHS) Arizona Medically Underserved Areas Biennial Report, the Alhambra Village, Avondale, Buckeye, Camelback East Village, Central City Village, El Mirage & Youngtown, Estrella Village & Tolleson, Fort McDowell Yavapai Nation, Glendale Central, Laveen Village, Maryvale Village, Mesa Central, Mesa West, New River/Cave Creek, North Gateway/Rio Vista Village, North Mountain Village, Peoria South, Salt River Pima-Maricopa Indian Community, Scottsdale South, South Mountain Village & Guadalupe, Sun City, Surprise North & Wickenburg, and Tempe North PCAs have been federally designated as a Medically Underserved Areas.^{xxi}

Table 1 provides the specific age, sex, and race/ethnicity distribution and data on key socio-economic drivers of health status of the Maricopa County population compared to the state of Arizona.

Table 1.

| | Maricopa County | Arizona |
|--|-----------------|-----------|
| Population: estimated 2019 | 4,328,810 | 7,050,299 |
| Gender | | |
| • Male | 49.4% | 49.7% |
| • Female | 50.6% | 50.3% |
| Age | | |
| • 0-9 yrs | 13.0% | 12.6% |
| • 10-19 yrs | 13.8% | 13.4% |
| • 20-34 yrs | 21.3% | 20.6% |
| • 35-64 yrs | 37.2% | 36.3% |
| • 65-84 yrs | 13.1% | 15.2% |
| • 85+ yrs | 1.7% | 1.9% |
| Race | | |
| • White | *77.6% | *77.2% |
| • Asian/Pacific Islander | *4.2% | *3.3% |
| • Black/African American | *5.6% | *4.5% |
| • American Indian/Alaska Native | *2.0% | *4.5% |
| • Other/Unknown | *6.7% | *6.5% |
| Ethnicity | | |
| • Hispanic | *31.0% | *31.3% |
| Median Income | \$64,468 | \$58,945 |
| Uninsured | 10.6% | 10.4% |
| Unemployment | 5.0% | 5.9% |
| No HS Diploma | 14.8% | 15.6% |
| % of Population 5+ non-English speaking | 26.9% | 27.2% |
| Renters | *37.8% | *35.6% |
| CNI Score | 3.4 | - |

*Source: PolicyMap; Census ACS 2019 5-Year Estimates^{xxii}

Assessment, Process and Methods

Maricopa County hospitals and health centers play significant roles in the region's overall economy and health. In addition to providing safe and high-quality medical care, these institutions work to improve regional health through programs that promote health in response to identified community needs. Additionally, health care partners are often serving the same or portions of the same communities across Maricopa County. As a result, Banner Health, Dignity Health, Mayo Clinic Hospital, Native Health, Neighborhood Outreach Access to Health, Phoenix Children's Hospital, and Valleywise Health have joined forces with MCDPH through the Synapse partnership to identify the communities' strengths and greatest needs in a coordinated community health needs assessment. Dignity Health, as a member of Synapse, contracted with MCDPH to conduct the CHNA process. The CHNA utilizes a mixed-methods approach that includes the collection of secondary data from existing data sources and community input data from focus groups, surveys, and meetings with community stakeholders. The process was iterative as both the secondary and primary data were used to help inform each other. The advantage of using this approach is that it validates data by cross-verifying from a multitude of sources.

Primary Data

The first round of community data collection occurred in the fall of 2019 and involved a community survey as well as a series of focus groups. MCDPH contracted with ASU SIRC to conduct the focus group analysis. In response to the severe changes in the community health landscape due to the COVID-19 pandemic, a supplemental survey and focus group cycle was conducted in the summer of 2021. Both data sources are included in this assessment to provide a robust evaluation of community needs, both before and during the pandemic.

2019 Coordinated Community Health Needs Assessment Focus Groups (Appendix B)

A total of 52 focus groups were conducted between August 2018 and December 2019 with medically underserved populations across Maricopa County including youth in the third and final cycle. The groups consisted of specific ethnic groups: (1) African Americans, (2) Native American, (3) Congolese, (4) Hispanic, and (5) Filipino. Other groups represented were: (6) homeless populations, (7) Lesbian, Gay, Bisexual, Transgender, and Questioning (LGBTQ) persons including veterans, and migrant seasonal farmworkers, (8) people who've been incarcerated, (9) people in rural communities, (10) new parents, and (11) parents of children with special health care needs. Six groups were conducted in Spanish, one in Mandarin, one in Swahili and the remainder in English.

The focus group design and execution proceeded through five phases: (1) initial review of literature; (2) focus group discussion guide development; (3) focus group recruitment; (4) focus group data collection; and (5) report writing and presentation of findings. Focus group participants were asked to complete a survey that assessed a variety of factors that could have an important impact on individual and community health and quality of life. These were mainly closed-ended questions to augment the focus group discussions. The focus group data were analyzed and organized thematically to highlight prevalent ideas across the groups as well as surprising/unique responses from particular focus groups.

COVID-19 Focus Groups (Appendix B)

Between February and June 2021, a series of 33 focus groups were conducted which included 186 participants across various community regions, service providers and individual residents to better understand the impact of COVID19 on Maricopa County residents. Focus groups helped to identify and address health needs, resource allocation, and long-term services needed for COVID-19 response efforts. Members of the community representing subgroups, defined as groups with unique attributes (race and ethnicity, age, sex, culture, lifestyle, or residents of a particular area of Maricopa County), were recruited to participate in focus groups. A standard protocol was used for all focus groups (See Appendix B) to understand the experiences of these community members as they relate to the impact of COVID-19 on Maricopa County residents. In all, a total of 33 focus groups were conducted with 186 community members from five geographic Maricopa County locations based on the following groups: (1) older adults; specific ethnic groups (2) African American; (3) Hispanics/Latino; (4) Native American; (5) Asian American; (6) ethnic minority young adults; (7) Lesbian, Gay, Bisexual, Transgender, and Questioning (LGBTQ) persons; (8) veterans; (9) new parents; (10) parents of young children, and (11) refugees.

The focus groups explored the topics of COVID-19 impact, barriers, concerns, messaging, trust in public health, vaccine intent, vaccine choices, and vaccine hesitancy. Participants also spent a great deal of time discussing health care, obstacles to care, access to food, financial well-being, and quality of life. To complement the focus groups, 158 respondents (most but not all of whom participated in the focus groups) completed an online anonymous questionnaire that asked about COVID-19 concerns, social determinants of health, medical trust, and mental and physical health. Participants discussed declines in mental health and physical health and barriers to the vaccine as well as vaccine hesitancy and confusion. Suggestions were offered for messages and for who would influence their vaccine decisions, noting that one size does not fit all. The focus group data were analyzed and organized thematically to highlight prevalent ideas across the groups as well as surprising/unique responses from particular focus groups.

2019 Maricopa County Community Health Assessment Community Survey (Appendix B)

Between February and June 2019, MCDPH collected community surveys from residents and professionals within Maricopa County. This survey is part of the Coordinated Maricopa County Community Health Needs Assessment (CCHNA) designed to identify priority health issues, resources, and barriers to care within Maricopa County through a community-driven process known as Mobilizing for Action through Planning and Partnerships (MAPP). A total of 22 survey questions were included, organized by the following sections: Physical and Mental Health, Health Care and Living Expenses, Barriers and Strengths of the Community, and Health and Wellness of the Community.

The survey questionnaire was originally developed by the National Association of County and City Health Officials (NACCHO). The survey was modified from its original version by Dignity Health, members of the Synapse Coalition, a group of non-profit hospitals and federally qualified health care providers, the Health Improvement Partnership of Maricopa County (HIPMC), and MCDPH staff. Response options were expanded from the original format to include additional health issues and social determinants of health. The questionnaire was provided on a digital platform using Qualtrics® in addition to a paper format. All surveys were provided in English and Spanish. There was minimal request for additional language translations, so we worked with partners who were able to assist individuals as translators to complete the survey.

The goal for the community survey was 15,000 responses, however once all data was cleaned to ensure usability, a total of 11,893 surveys were collected from community residents ages 14 and above. The digital survey was sent out via extensive community partner networks throughout Maricopa County, hospital/healthcare systems, municipalities, school districts, and social media, our internal programs allowing us to maximize resources. The survey was widely publicized with community and healthcare partners prior to March 1, 2019 to secure presence at community events and provide online advertisement to redirect individuals to the survey.

COVID-19 Community Impact Survey (Appendix B)

COVID-19 was declared a global pandemic in March of 2020, and this set off a series of drastic changes to everyday life for residents of Maricopa County. From May - July 2021, MCDPH mobilized data collection resources and community partnerships to explore how COVID-19 had impacted residents. This COVID-focused survey is part of the Coordinated Maricopa County Community Health Needs Assessment (CCHNA) designed to identify priority health issues, resources, and barriers to care. Survey questions were grouped into the following sections: Demographics, Physical and Mental Health, Health Care and Living Expenses, COVID-19 Impact on Employment, Barriers, Strengths, Health Conditions, Community Issues, Survey Usability, and Other Noteworthy COVID-19 Experiences. The questionnaire was primarily provided on a digital platform using Alchemer® and was provided in over 12 languages (Arabic, Burmese, Chinese, English, French, Kinyarwanda, Korean, Lao, Spanish, Swahili, Tagalog, Thai, and Vietnamese).

The foundation for this survey questionnaire was developed by the National Association of County and City Health Officials (NACCHO). The survey was modified from its original version by SJHMC, members of the Synapse Coalition, a group of non-profit hospitals and federally qualified health care providers, the Health Improvement Partnership of Maricopa County (HIPMC), and MCDPH staff. Additional questions and response options were added and modified from the original format to assess the impact of COVID-19 on Maricopa County residents and explore additional health issues and social determinants of health. Free response questions were analyzed through a thematic analysis. A codebook was developed inductively based on the response data, and key themes were identified with the consensus of the MCDPH epidemiology team. At least 50% of the collected responses from each region in Maricopa County were analyzed and coded with key themes, totaling 2,186 responses analyzed. Key themes were ranked by frequency.

The goal for the community survey was 15,000 responses, however a total of 14,380 surveys were completed by residents of Maricopa County. MCDPH partnered with an extensive network of community-based organizations and healthcare partners to collect community surveys from residents and professionals within Maricopa County. The MCDPH team wanted to ensure diverse community representation and that the survey provided insight from all regions (Northeast, Northwest, Central, Southeast, and Southwest) of the county. MCDPH collaborated with several community-based organizations to provide stipends from \$2,000 - \$5,000 to support survey translation, distribution & completion, social media outreach via networks, purchase of incentives for survey completion, and administrative expenses.

In addition, the Community Benefit Team also solicited input on the CHNA process from two community groups.

Secondary Data

Many of the challenging health problems facing the United States in the 21st century require understanding the health of communities – not just individuals. The challenge of maintaining and improving community health has led to the development of a “population health” perspective.^{xxiii} Population health can be defined as “the health outcomes of a group of individuals, including the distribution of such outcomes within the group.”^{xxiv} A focus on population health implies a concern for the determinants of health for both individuals and communities. The health of a population grows directly out of the community’s social and economic conditions as well as the quality of its medical care. As a result, the CHNA utilizes a population health framework for this report to develop criteria for indicators used to measure health needs.

Quantitative data used in this report are high quality, population-based data sources and were analyzed by MCDPH, Office of Epidemiology. Secondary data was collected from local, state, and national sources such as the Maricopa County Department of Public Health, Arizona Department of Health Services, Arizona Criminal Justice Commission, American Census Survey, and U.S. Centers for Disease Control and Prevention (CDC). Secondary data includes Maricopa County Hospital Discharge Data, Maricopa County Death Data, Maricopa County Birth Data, Behavioral Risk Factor Surveillance Survey (BRFSS), Youth Risk Factor Surveillance Survey (YRBSS), PolicyMap, and the American Census Survey.

Hospital Discharge Data, Death Data, and Birth Data

MCDPH receives Hospital Discharge Data (HDD) bi-annually from the Arizona Department Health Services (ADHS). HDD consists of inpatient (IP) and emergency department (ED) discharge data for most Maricopa County hospitals. Data is collected based on the discharge date of the patient. Since 2015, diagnoses are coded using ICD-10.

MCDPH receives vital Death data annually from ADHS for the previous year. This data includes deaths in Maricopa County regardless of residency status. The finalized and cleaned vital data consists of death data for residents of Maricopa County. Data is collected based on the event date of the patient, i.e., date of death. The death database is coded using ICD-10. MCDPH receives vital Birth data annually from ADHS. This data includes births in Maricopa County regardless of residency status. Data is collected based on the event date of the patient, e.g., birth date.

Hospital Discharge Data, Death and Birth Data are obtained from ADHS and cleaned by MCDPH to use for analyses. These datasets are used along with population estimates from the American Census Survey to analyze health indicators for Maricopa County residents. All health indicator rates are age adjusted using the 2000 Standard Population.^{xxv} Age-adjustment methods allow for fairer comparisons between population groups even if the size of the groups is different. The National Center for Health Statistics recommends using the 2000 Standard Population when calculating age-adjusted rates. In this report, the 2000 Standard Population is used to standardize HDD and vitals data. Health indicators that were analyzed include fatal and nonfatal chronic conditions, fatal cancer indicators, fatal and non-fatal injuries, mental and behavioral health indicators, and infant birth indicators. Each indicator is analyzed as an overall rate for Maricopa County, and then further analyzed by age, race, and gender to highlight disparities. In 2019, there were around 4.5 million Maricopa County residents.

Other Secondary Data

Other secondary data includes publicly accessible data from the U.S. Census, CDC, and PolicyMap to elaborate on health and social indicators. The Behavioral Risk Factor Surveillance System and Youth Risk Behavior Surveillance System surveys are developed by the CDC and conducted for each state to monitor the health and social behaviors of adults and youth. In this assessment, BRFSS and YRBSS are analyzed by county and state levels. The American Census Survey by the U.S. Census Bureau measures the social and economic characteristics of U.S. populations. For this assessment, 2019 data is used to analyze Maricopa County population and demographics. PolicyMap provides geographic data that maps demographic, social, and health indicators across the United States. PolicyMap is used in this assessment to evaluate social indicators in Maricopa County for 2018, 2019, and 2020 when accessible.

Synapse partners selected approximately 100 data indicators to help examine the health needs of the community. These indicators were based on the Center for Disease Control and Prevention’s (CDC) Community Health Assessment for Population Health Improvement: Most Frequently Recommended Health Metrics report.^{xxvi} From the approximately 100 data indicators, Table 2 displays the initial round of 27 health indicators and eight social indicators that the Community Benefit Team selected for further analysis. For the health indicators, hospital discharge and death databases were utilized to perform this analysis.

Table 2.

| Initial Round Health Indicators | Initial Round Social Indicators |
|--|---------------------------------|
| Alcohol-Related Injuries | Housing |
| All Mental and Behavioral Disorders | Homelessness |
| Mood and Depressive Disorders | Transportation |
| Schizophrenia Disorders | Food Insecurity |
| Drug-induced Mental and Behavioral Disorder | Access to healthcare |
| Non-drug induced Mental and Behavioral Disorders | Maternal and Child Health |
| Alzheimer’s | Financial Security |
| Arthritis | Racial Equity |
| Asthma | |
| Breast Cancer | |
| Cardiovascular Disease | |
| Heart Failure | |
| Chronic Obstructive Pulmonary Disease | |
| Diabetes | |
| Falls | |
| Lung Cancer | |
| Motor Vehicle Crashes | |
| Injury to an Occupant | |
| Pedestrian-related | |
| Injury to a pedal cyclist | |
| Opioid-related | |
| Unintentional Drug Overdose | |
| Intentional Self-Harm/Suicide | |
| Intentional Drug Overdose | |

| |
|---|
| Stroke |
| Uterine/Ovarian Cancer |
| Victim of Violence/Interpersonal Violence |

Input from the Community

The Community Benefit Team engaged in a community-based process to gather input from the community. SJHMC met with the Community Benefit and Health Equity Committee (CBHEC) on April 29, 2021, and September 9, 2021, and with the Health Equity Alliance (HEA) on June 2, 2021, and August 18, 2021, to narrow indicators down from 100 to 27 to finally eight priorities. The CBHEC is a subcommittee of the SJHMC Community Board, comprised of members who provide stewardship and direction for the hospital as a community resource. The HEA is a large group of community organizations that the SJHMC community benefit staff bring together quarterly to work on the shared goal of improving the health and well-being of Maricopa County residents while reducing health disparities. A full list of organizations who participated in the CBHEC and HEA meetings can be found in Appendix F.

The process involved iterations of data presentations co-led by MCDPH, strategic planning sessions, and feedback from the SJHMC Community Board. St. Joseph’s Hospital and Medical Center invited written comments on the most recent CHNA report and Implementation Strategy both in the documents and on the website where they are widely available to the public. No written comments have been received. Details of the prioritization process is detailed under the section “Prioritized Description of Significant Community Health Needs.”

Assessment Data and Findings

This section includes overall data and findings from the community surveys, focus groups, and health indicator analysis. These combined assessments provide a comprehensive picture of the top issues and concerns facing the community, from looking at rates of health conditions to the social and environmental factors that contribute to well-being. Whenever possible, the measures of interest are evaluated through a health equity lens to identify any disparities based on race, gender, age, or other factors.



In this Section:

- **Indicator data for top social issues and top health issues (Tables 3-5)**
- **Qualitative data themes from 2019 and 2021 focus groups and open-ended survey questions. (Table 6)**
- **Quantitative data from 2019 and 2021 community surveys**
 - Top health and social issues from 2021 COVID-19 Impact Survey
 - Comparison of top issue rankings from 2019 and 2021 survey results (Table 7)
 - Top health and social issue rankings analyzed by race and special populations (Tables 8-9)

Top Social and Health Needs

Social determinants of health (SDOH) are 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. Some examples of SDOH include housing, access to care, transportation, financial security, food insecurity, and racial equity. SDOH can contribute to wide health disparities and inequities.^{xxvii} Table 3 displays the top social issues identified in Maricopa County and Arizona.

Table 3.

| Top Social Issues Identified in Maricopa County (MC) and Arizona | | |
|---|---|---|
| Indicator | Significance to MC | Significance to AZ |
|  Housing | <p>45.1% of renters were considered cost-burdened.</p> <p>21.7% of homeowners are cost-burdened.</p> | <p>44.5% of renters were considered cost-burdened.</p> <p>21.6% of homeowners are cost-burdened.</p> |
|  Access to Care | <p>10.62% of residents were considered uninsured.</p> | <p>10.4% of residents were uninsured.</p> |
|  Maternal & Child Health | <p>In 2018, 7.5% of infants were born with a low birth weight (<2,500 grams).</p> <p>In 2018, there were 74.1% of births where prenatal care began during the first trimester.</p> | <p>In 2018, 7.6% of infants were born with a low birth weight (<2,500 grams).</p> <p>In 2018, there were 71.2% of births where prenatal care began during the first trimester.</p> |
|  Transportation | <p>5.9% of residents had no vehicle availability.</p> <p>87.0% of residents drive to work in a car and 1.9% of residents use public transit to get to work.</p> | <p>6.2% of residents had no availability to a vehicle.</p> <p>87.2% of residents drive to work in a car, and 1.8% of residents use public transit to get to work.</p> |
|  Financial Security | <p>In 2020, the unemployment rate for MC residents (7.4% increased by 3% compared to 2019 (4.2%)).</p> | <p>In 2020, the unemployment rate for AZ residents (7.9%) increased by 3% compared to 2019 (4.9%).</p> |

| | | |
|--|---|--|
|  <p>Food Insecurity</p> | <p>In 2018, 9.5% of residents received food stamps.</p> | <p>In 2018, 11.3% of residents received food stamps.</p> <p>Since the beginning of the pandemic, 32% of Arizona household experience food insecurity compared to 25% the year prior.</p> |
|  <p>Racial Equity*</p> | <p>Maricopa County ranked #248 out of 359 on the Racial Equity Index at the county level.</p> | <p>Arizona ranked #33 out of 50 on the Racial Equity Index at the state level.</p> |
| <p>Source: PolicyMap & National Equity Atlas - data in this table was collected in 2019 unless stated otherwise</p> | | |

The Racial Equity Index is a data tool designed to help communities identify priority areas for advancing racial equity, track progress over time, and set specific goals for closing racial gaps. The Index is based on nine Atlas indicators (median wage, unemployment, poverty, educational attainment, disconnected youth, school poverty, air pollution, commute time, and rent burden). The Racial Equity Index value is based on the inclusion score and prosperity score. The **inclusion score measures how a given geography is doing compared to its peers in terms of **racial gaps** across nine indicators. The **prosperity score** measures how a given geography is doing compared with its peers in terms of overall **population outcomes** for the nine indicators included in the equity index.^{xxviii}*

Of the 27 health indicators that were analyzed, the following indicators displayed in table 4 had the highest overall rates per 100,000 for in patient hospitalization (IP), emergency department visits (ED), and deaths.^{xxix, xxx} Each number within the table represents the ranking of each health indicator for IP, ED, and deaths. The color gradients are used to help visualize the different rankings among the health indicators.

| IP/ED/Death Ranking |
|---------------------|
| Top 5 |
| 6-9 |
| 10+ |

Table 4.

| Top Health Indicators Identified in Maricopa County | | | |
|---|---------------------------------|----------------------------------|--------|
| Indicator | Inpatient Hospitalizations (IP) | Emergency Department Visits (ED) | Deaths |
| Cardiovascular Disease | 1 | 2 | 1 |
| Mental & Behavioral Health | 2 | 3 | . |
| Falls | 3 | 1 | 10 |

| | | | |
|---------------------|----|----|----|
| Arthritis | 4 | 11 | 18 |
| Stroke | 5 | 12 | 4 |
| Diabetes | 6 | 7 | 7 |
| Motor Vehicle Crash | 8 | 4 | 13 |
| COPD | 9 | 9 | 2 |
| Asthma | 11 | 6 | 17 |
| Lung Cancer | 12 | 18 | 5 |
| Breast Cancer | 18 | 17 | 9 |
| Alzheimer's | 19 | 19 | 3 |

Health Equity

According to the Robert Wood Johnson Foundation, “Health equity means that everyone has a fair and just opportunity to be healthier. This requires removing obstacles to health such as poverty, discrimination, and their consequences, including powerlessness and lack of access to good jobs with fair pay, quality education and housing, safe environments, and healthcare.”^{xxxi} Addressing health equity requires understanding differences in health outcomes based on race, gender, age, and socio-economic status – among other factors. The following health indicators are broken down by race, gender, and age in Table 5 to highlight potential health disparities.^{xxix, xxx} For each disparity, the percentage difference between the population group with the highest rate was compared to the overall rate. Please refer to Appendix E for specific rate values.

Table 5.

| Top Health Indicators Disparities in Maricopa County <i>(% difference between highest population group and overall rate when available)</i> | | | |
|---|---|---|---|
| Indicator | Gender Disparity | Age Disparity | Racial Disparity |
|  Cardiovascular Disease (CVD) | Males had a higher IP (+14%) and death rate (+5%) while females had a higher ED rate (+1%). | Patients aged 75+ had the highest IP (+502%), ED (+322%) and death (+910%) rate. | Black/African American patients had the highest IP (+44%) and ED rate (+104%) while White/Caucasian patients had the highest death rate (+47%). |
|  Mental and Behavioral Health | Males had a higher IP (+12%), ED (+13%), and death rate (+113%) than females. | Patients aged 15-19 had the highest IP rate (+69%), patients aged 25-34 had the highest ED rate (+76%), and patients aged 75+ had the highest death rate. | Black/African American patients had the highest IP rate (+88%), while American Indian patients had the highest ED (+189%) and death rate (+202%). |
|  Falls | Females had a higher IP (+13%), ED (+12%), and death rate (+4%) than males. | Patients aged 75+ had the highest IP (+704%), ED (+239%), and death rate (+1,108%). | White/Caucasian patients had the highest IP (+52%) and death rate (+58%), while Black/African American patients had the highest ED rate (+31%). |

| | | | | |
|---|----------------------|--|---|---|
|  | Arthritis | Females had a higher IP (+12%) and death rate (+170%) while males had a higher ED rate (+7%). | Patients aged 65-74 had the highest IP (+361%) and death rate while patients aged 75+ had the highest ED rate (+176%). | White/Caucasian patients had the highest IP rate (+57%), Black/African American patients had the highest ED rate (+226%), and Hispanic patients had the highest death rate (+300%). |
|  | Stroke | Males had a higher IP rate (+6%), males had a higher ED rate (= to total), and females had a higher death rate (+13%). | Patients aged 75+ had the highest IP (+533%), ED (+437%), and death rate (+977%). | White/Caucasian patients had the highest IP (+36%) and death rate (+45%) while Black/African American patients had the highest ED rate (+41%). |
|  | Diabetes | Males had a higher IP (+21%), ED (+1%), and death rate (+20%) than females. | Patients aged 75+ had the highest IP (+91%) and death rate (+508%) while patients aged 55-64 had the highest ED rate (+77%). | Black/African American patients had the highest IP (+107%), ED (+155%), and death rate (+113%). |
|  | Motor vehicle | Males had a higher IP (+27%), ED (+12%), and death rate (+46%) than females. | Patients aged 75+ had the highest IP (+45%) and death rate (+94%) while patients aged 20-24 had the highest ED rate (+104%). | American Indian patients had the highest IP (+60%) and death rate (+53%) while Black/African American patients had the highest ED rate (+175%). |
|  | COPD | Females had a higher IP (+17%) and ED rate (+14%) while males had a higher death rate (+3%). | Patients aged 75+ had the highest IP (+400%), ED (+281%), and death rate (+873%). | White/Caucasian patients had the highest IP (+53%) and death rate (+60%) while Black/African American patients had the highest ED rate (+59%). |
|  | Asthma | Females had a higher IP (+19%), ED (+3%), and death rate (+9%) than males. | Patients aged 5-9 had the highest IP (+136%) and ED rate (+134%) while patients aged 75+ had the highest death rate (+227%). | Black/African American patients had the highest IP (+239%), ED (+350%), and death rate (+236%). |
|  | Lung Cancer | Females had a higher IP rate (+11%), males and females had the same ED rate (= to total), and males had a higher death rate (+2%). | Patients aged 75+ had the highest IP (+426%), ED (+374%), and death rate (+640%). | White/Caucasian patients had the highest IP (+49%) and death rate (+55%), while Black/African American patients had the highest ED rate (+76%). |
|  | Breast Cancer | | Patients aged 65-74 had the highest IP rate (+174%), patients aged 55-64 had the highest ED rate (+157%), patients aged 75+ had the highest death rate (+388%). | White/Caucasian patients had the highest IP rate (+31%) while Black/African American patients had the highest ED (+219%) and death rate (+46%). |
|  | Alzheimer's | Males had a higher IP rate (+1%) while females had a higher ED (+12%) and death rate (+31%). | Patients aged 75+ had the highest IP (+1,042%), ED (+1,134%), and death rate (+1,313%). | White/Caucasian patients had the highest IP (+59%), ED (+41%), and death rate (+58%). |
| Source: Maricopa County's 2019 Hospital Discharge and Death Database | | | | |

Qualitative Themes from Focus Groups

The following themes were identified from 2019 and 2021 focus groups data and open-ended survey responses from the 2021 COVID-19 impact survey. In focus groups, participants were asked questions about how they perceive their own health status, how COVID-19 affected their family, where they get information about health/COVID-19, barriers, and facilitators to accessing care, and how health/COVID-19 messaging could be improved.

Table 6. Qualitative focus group themes from 2019 and 2021.

| Themes | 2019 | 2021 |
|---|--|--|
|  Mental Health | <ul style="list-style-type: none"> - Access to social connections and sense of community - Depression, suicide, and substance abuse increasingly important issues - Need for mental health services | <ul style="list-style-type: none"> - Decline in mental health due to isolation, depression, and anxiety - Difficulty accessing mental health services - Importance of social gatherings and mental health |
|  Healthcare | <ul style="list-style-type: none"> - Inaccessible healthcare appointments with long wait times - Need more clinics, pharmacies, and specialists - Need greater insurance coverage | <ul style="list-style-type: none"> - Perceived medical discrimination - Lack of trust in healthcare - Issues with accessing physical health and pharmaceutical services |
|    Finances for living essentials | <ul style="list-style-type: none"> - High cost of medical care - Make too much to qualifying for AHCCCS but still can't cover daily costs - Transportation, housing financially inaccessible | <ul style="list-style-type: none"> - Financial burden on food, rent/mortgage utilities, clothing, childcare - Difficulty paying for medical expenses - Challenge accessing financial services |
|  Information/education | <ul style="list-style-type: none"> - Lack of education regarding insurance - Need more information about health conditions, sex-ed, and nutrition - Indicate medical misinformation is a problem | <ul style="list-style-type: none"> - COVID-19 vaccine misinformation/rumors - Merits/utility of doctors, primary health care providers, social media and news as information sources - Frustrations with politicization of COVID-19 prevention and vaccination measures |
|  Laws/Infrastructure | <ul style="list-style-type: none"> - Access to public libraries, spaces, and events is important - Suggest laws to improve nutrition | <ul style="list-style-type: none"> - Adherence/ambivalence toward COVID-19 prevention measures (face masks, physical distancing, hand washing, testing) |

Maricopa County Overall COVID-19 Impact Survey Results

The following data from the 2021 CHNA survey reflect top healthcare barriers, health conditions, community issues, and community strengths experienced by Maricopa County participants.

Top Healthcare Barriers

46% of respondents said they had no barriers to healthcare. The three barriers for others were:

-  Fear of exposure to COVID-19 in a healthcare setting **28%**
-  Unsure if healthcare need is a priority during this time **15%**
-  Difficulty finding the right provider for my care **12%**

Top Health Conditions

48% of respondents reported that mental health issues have had the greatest impact on their community.



48%

Mental Health Issues



40%

Overweight/Obesity



29%

Alcohol/ Substance Use

Community Issues

30% of respondents reported that lack of people immunized to prevent disease has had the greatest impact on their community.

- 1** Lack of people immunized to prevent disease **30%**
- 2** Distracted driving **29%**
- 3** Homelessness **26%**

Community Strengths

47% of respondents reported that access to COVID-19 vaccine events has been the greatest strength of their community.

- 1** Access to COVID-19 vaccine events **47%**
- 2** Access to COVID-19 testing events **41%**
- 3** Access to safe walking and biking routes **30%**

Comparison of 2019 & 2021 Community Survey Results

*Response was not available in 2019 survey

Some health priorities changed due to COVID-19, while others were merely exacerbated. From 2019 to 2021, the top three community health issues remained the same, but *mental health* rose to the top. Community issues still included *distracted driving* and *homelessness*, with *lack of people immunized* as a leading issue. *Access to outdoor spaces and biking paths* remained a top community strength. *Fear of COVID-19 exposure* and *uncertainty if healthcare is a priority at this time* rose to the top for barriers to healthcare, but *difficulty finding the right provider* remained a top choice.

Table 7. Ranked Community Survey Results 2019 and 2021

| Rank | 2019 | 2021 |
|---|---|---|
| Community Issues | | |
| 1 | Distracted driving (46.1%) | Lack of people immunized to prevent disease (29.5%) |
| 2 | Homelessness (28.9%) | Distracted driving (28.5%) |
| 3 | Illegal drug use (24.1%) | Homelessness (25.8%) |
| Community Strengths | | |
| 1 | Access to parks and recreation sites (55.9%) | *Access to COVID-19 vaccine events (46.7%) |
| 2 | Access to public libraries and community centers (50.3%) | *Access to COVID-19 testing events (41.1%) |
| 3 | Clean environments and streets (39.1%) | Access to safe walking and biking routes (29.7%) |
| Health Conditions | | |
| 1 | Alcohol/substance abuse (48.3%) | Mental health issues (47.8%) |
| 2 | Overweight/obesity (38.4%) | Overweight/obesity (39.6%) |
| 3 | Mental health issues (37.5%) | Alcohol/substance abuse (28.6%) |
| Barriers to Accessing Healthcare | | |
| 1 | Not enough health insurance coverage (32.9%) | *Fear of exposure to COVID-19 in a healthcare setting (28.2%) |
| 2 | Difficulty finding the right provider for my care (32.1%) | *Unsure if healthcare need is a priority during this time (14.7%) |
| 3 | Inconvenient office hours (25.4%) | Difficulty finding the right provider for my care (11.6%) |

In the 2021 COVID-19 Impact survey, participants were asked: “Since March of 2020, which of the following issues have had the greatest impact on your community’s health and wellness?”. The following tables display the greatest community issues broken out by race/ethnicity and special populations.

Table 8. Greatest Community Issues – Race/Ethnicity

| | 1 | 2 | 3 |
|---|---|---|----------------------------|
| African American/Black | Racism/discrimination | Lack of affordable housing | Homelessness |
| American Indian/Native American | Homelessness | Distracted driving | Lack of affordable housing |
| Asian/Native Hawaiian/Pacific Islander | Racism/discrimination | Lack of people immunized to prevent disease | |
| Caucasian/White | Lack of people immunized to prevent disease | Distracted driving | Homelessness |
| Hispanic/Latinx | Homelessness | Lack of affordable housing | Distracted driving |
| Two or more races | | Racism/discrimination | Lack of affordable housing |
| Unknown/Not Given | Distracted driving | Homelessness | |

Table 9. Greatest Community Issues – Special Populations

| | 1 | 2 | 3 |
|---|---|---|---|
| Adult with Kids | Lack of people immunized to prevent disease | Distracted driving | Lack of affordable housing |
| Single Parent | Lack of affordable housing | Homelessness | Lack of people immunized to prevent disease |
| LGBTQI+ | Racism/discrimination | Lack of affordable housing Homelessness | |
| Person experiencing homelessness | Lack of affordable housing Homelessness | | Racism/discrimination |
| Person with disability | Lack of people immunized to prevent disease | Lack of affordable housing | Homelessness |
| Immigrant | Homelessness | Distracted driving Racism/discrimination | |
| Refugee | Distracted driving | Racism/discrimination | Lack of people immunized to prevent disease |
| Veteran | | Lack of people immunized to prevent disease | Homelessness |
| Person with living HIV/AIDS | Racism/discrimination | | |

Prioritized Description of Significant Community Health Needs

The top social and health issues were identified based on data collection and community feedback. Health conditions and outcomes were assessed from County inpatient hospitalization, emergency department and death data, along with external data sources. All data were presented to community partners, who provided feedback about what they experience in their life and work. A total of 27 health indicators with several subcategories were analyzed. These indicators were established by the Community Benefit Team for the JVHs by selecting health indicators of interest that have historically demonstrated high rates or those with known disparities when broken out by race/ethnicity, gender, and age.

Of the 27 indicators that were analyzed, a chart ranking the top five rates for inpatient hospitalizations, emergency department visits, and death was presented to community partners. For each top ranked indicator, existing data trends and disparities broken out by race/ethnicity, age group, and gender were also shared. Throughout several data presentations, the Health Equity Alliance (HEA) and the Community Benefit and Health Equity Committee (CBHEC) participated in virtual polls that asked participants the following questions:



- What is the top social issue affecting your community?
- These social issues accurately reflect what I see in my community.
- What is the top health issue affecting your community?
- Do these highest ranked health indicators accurately reflect what you see in your community?
- Do these disparities accurately reflect what you see in your community?

A list of organizations who participated in the HEA and CBHEC can be found in Appendix F. Based on the feedback received from community partners throughout each interactive poll, word clouds were developed. The bigger and bolder the words appeared in the word cloud, the more often it was mentioned. All poll responses received from HEA and CHBEC meetings were compiled and evaluated through a health equity lens (represented by the funnel to the right), acknowledging that health equity is an underlying factor for many health and social needs. Community partners also participated in virtual breakout room activities to discuss and give their insight about the presented top identified social and health needs.



Improving health and health care requires a focus on equity – equity of access, treatment, and outcomes. Health equity is realized when each individual has a fair opportunity to achieve their full health potential.^{xxxii} Health data shows that racial and ethnic minority groups experience higher rates of illness and death across a wide range of health conditions, including diabetes, hypertension, obesity, asthma, and heart disease, when compared to their White counterparts.^{xxxiii} Acknowledging and addressing the

fairway between racial inequities and poor health outcomes is necessary to bridge the health equity gap. MCDPH and Dignity Health Arizona Joint Venture Hospitals utilized a health equity lens to investigate disparities in health and wellbeing based on race, gender, age, economic status, and other social factors. These differences are detailed throughout the report, to provide a framework for next steps in addressing ways in which the social and built environments impact health.

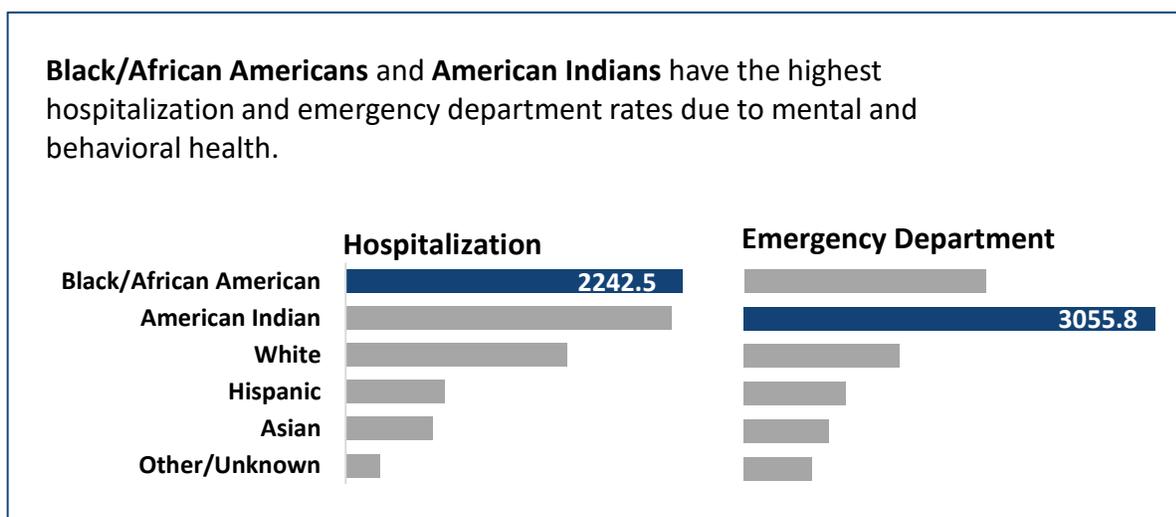
Four top social issues were identified by community partners: affordable housing/homelessness, access to healthcare (including maternal/child health and financial security), food insecurity, and safety and violence (including unintentional injuries). A similar process was utilized to determine the top health issues identified by community partners. The following top health issues were identified: mental health, chronic health conditions (obesity, diabetes, and cardiovascular disease), addiction/substance abuse, and cancer. Based on the identified top health and social needs, approval was granted from community partners to move forward with the focus of eight significant health needs.



Mental health

Mental health was selected as a priority issue for the JVHs. The prevalence and severity of mental health issues continue to be on the rise and have been exacerbated by the COVID-19 pandemic. The dynamics of working from home, temporary unemployment, losing childcare and in-person school options, and lack of physical contact with other family members, friends and colleagues, exacerbated anxiety and depression for many individuals and families. In the 2019 community survey, 43.8% of residents in Maricopa County rated their mental health including mood, stress level, and the ability to think as excellent or very good. In the 2021 COVID-19 impact survey, only 32.5% of Maricopa County residents rated their mental health as excellent or very good. In 2019, mental and behavioral health issues ranked number one for inpatient hospitalization visits, and second for emergency department visits in Maricopa County, with Black/African Americans and American Indians having the highest rates (Figure 2).^{xxix}

Figure 2



The 2021-2025 Arizona Health Improvement Plan demonstrates how the pandemic impacted mental health. In mid-2021, most Americans reported heightened stress, nearly half reported struggling with mental health and/or substance abuse, and self-reported depression increased by over 300%.^{xxxiv} A participant from the COVID-19 impact survey reflected these trends when sharing how the pandemic impacted mental health in their community:

"COVID created new levels of isolation and social anxiety for many and division from those who failed to take precautionary measures."

(25-34 years old, COVID-19 Impact Survey)

Fear, worry, and stress are normal responses to perceived or real threats, especially when individuals are faced with uncertainty.^{xxxv} The following participant from the COVID-19 impact survey shared their experience of losing a family member while battling COVID-19 themselves:

"I feel my year was most impacted by anxiety and uncertainty and the feeling of isolation. My husband passed in Sept 2020. When I had COVID, I was alone and relied on internet for info and support. I wasn't sure who to contact for advice or support."

(65-74 years old, COVID-19 Impact Survey)



Chronic Health Conditions (Obesity, Diabetes, CVD)

Obesity

Obesity was selected as a priority issue for the JVs. Obesity is a complex health issue resulting from a combination of causes and individual factors such as behavior and genetics. Some contributing factors include the access to food and physical activity, education and skills, and food marketing and promotion.^{xxxvi} Obesity is associated with the leading causes of death in the United States and worldwide, including diabetes, heart disease, stroke, and some types of cancer. According to the Behavioral Risk Factor Surveillance System (BRFSS), in 2019 33.7% of Arizona residents were considered overweight (*BMI 25.0 - 29.9*) and 31.5% were considered obese (*BMI 30.0 - 99.8*).^{xxxvii} In 2019, the prevalence of overweight individuals in Maricopa County was greatest among ages 35-44 while the prevalence of obese individuals was greatest among ages 45-54 in Arizona (Figure 3).^{xxxviii, xxxvii} In Maricopa County, 34.0% of residents were considered overweight and 30.1% were considered obese in 2019 (Figure 4).

Figure 3

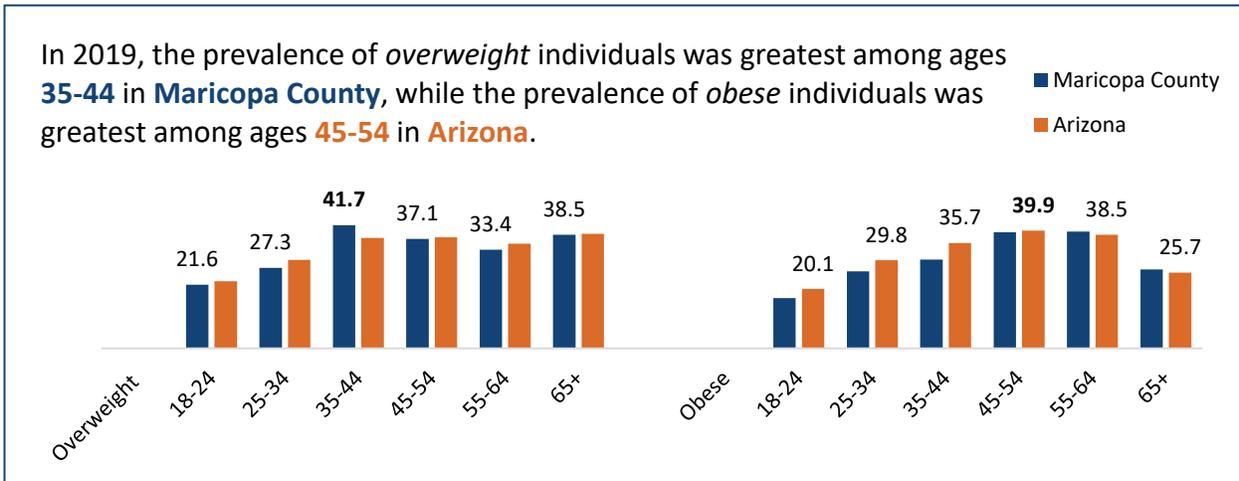
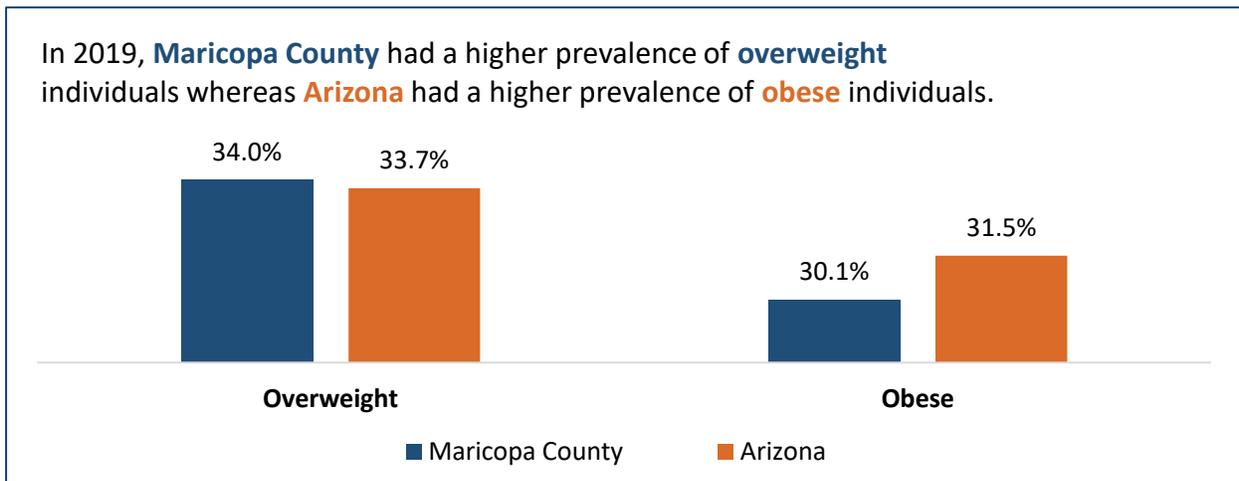


Figure 4



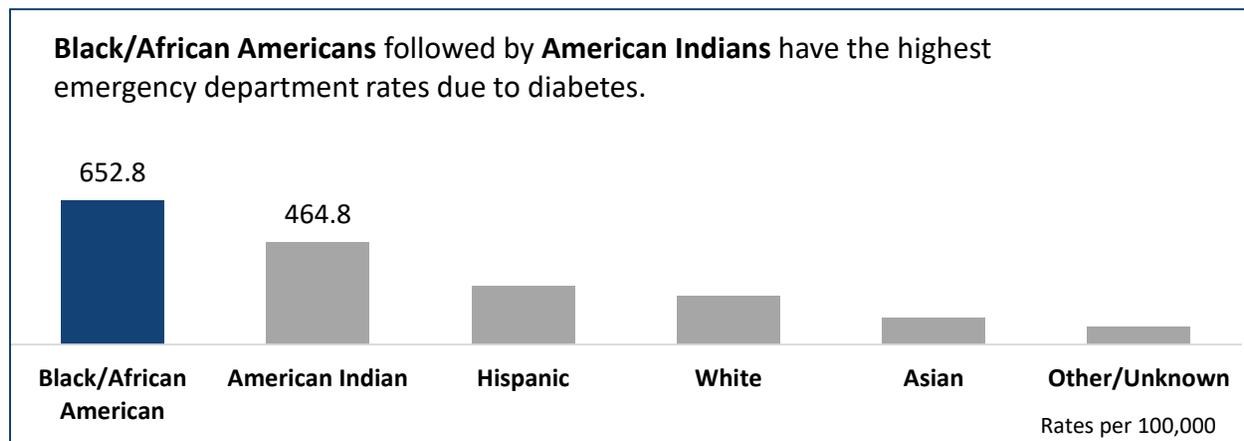
Stress and anxiety levels can lead to challenges maintaining a healthy weight, especially when access to gyms, public spaces, and other recreational facilities are reduced.^{xxxix} Access to safe and clean outdoor space is poignant area of disparity for many communities. Some participants in the COVID-19 impact survey highlighted benefitting from outdoor activities in their neighborhoods and local parks. Other individuals reported not having access to quality outdoor spaces due to neighborhood design, safety concerns, lack of walkable paths, and other factors often related to socio-economic status. A participant from the COVID-19 impact survey shared how the pandemic impacted their health and ability to stay physically active:

“I gained weight overall through covid because I wasn’t able to go outside and exercise.”
 (55-64 years old, COVID-19 Impact Survey)

Diabetes

Diabetes was another chronic health condition selected as a priority issue for the JVHs. Diabetes occurs when the body cannot produce enough insulin or cannot respond appropriately to insulin. Without a properly functioning insulin signaling system, blood glucose levels become elevated and other metabolic abnormalities occur, leading to the development of serious, disabling complications. Diabetes affects an estimated 29.1 million people in the United States and is the 7th leading cause of death.^{xi} In 2019, diabetes was ranked sixth for inpatient hospitalization visits, and seventh for emergency department visits in Maricopa County, with Black/African Americans and American Indians having the highest rates for emergency department visits (Figure 5).^{xxix}

Figure 5



Type 2 diabetes is largely preventable through several lifestyle factors such as staying physically active, maintaining a healthy diet, and monitoring blood sugar. The following participant from the COVID-19 impact survey shared their concern on the prevalence of diabetes in Arizona:

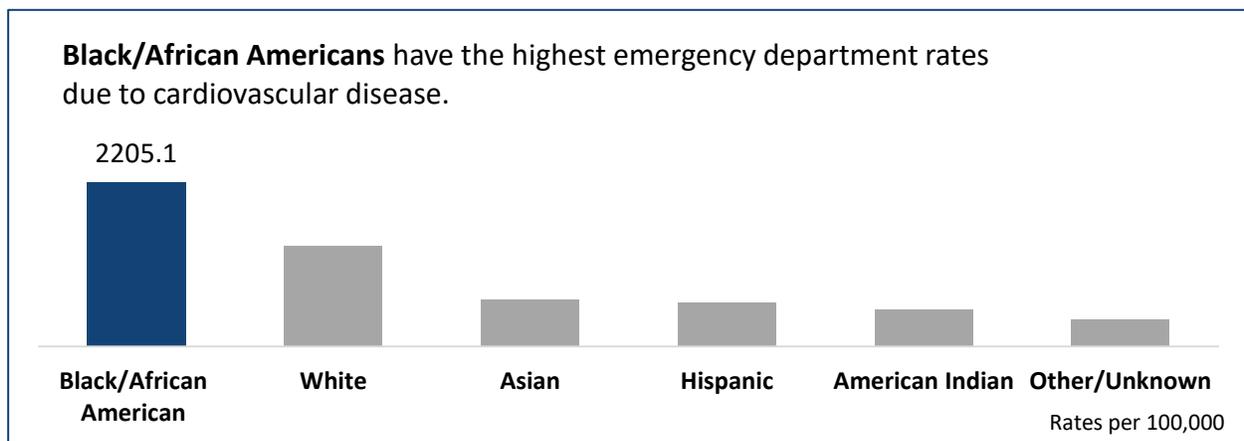
“...We need to focus on reinforcing healthy eating/lifestyles. Arizona has too much diabetes prone citizens. We must be healthy to ward off illness.”

(55-64 years old, COVID-19 Impact Survey)

Cardiovascular Disease (CVD)

CVD was selected as a priority issue for the JVHs. Heart disease is the leading cause of death in the United States. Currently more than 1 in 3 adults (85.6 million) live with 1 or more types of cardiovascular disease. The leading modifiable (controllable) risk factors for heart disease and stroke are high blood pressure, high cholesterol, cigarette smoking, diabetes, unhealthy diet, physical inactivity, and overweight and obesity. Addressing risk factors early and consistently can prevent potential complications of chronic cardiovascular disease.^{xii} In 2019, CVD was ranked second for inpatient hospitalization visits, and third for emergency department visits in Maricopa County, with Black/African Americans having the highest rate for emergency department visits (Figure 6).^{xxix}

Figure 6



Individuals with cardiovascular disease faced higher rates of hospitalization and death due to COVID-19. According to the American Heart Association, nearly one-fourth of those hospitalized with COVID-19 have been diagnosed with cardiovascular complications, which have been shown to contribute to roughly 40% of all COVID-19 related deaths.^{xiii} The following participant from the COVID-19 impact survey shared their experience losing a family member due to COVID-19:

"My wife died in February, 2021, a month after she contracted COVID. The presenting cause was heart trouble which had not previously been a problem. Our cardiologist stated that COVID likely weakened her heart causing her death."

(75+ years old, COVID-19 Impact Survey)

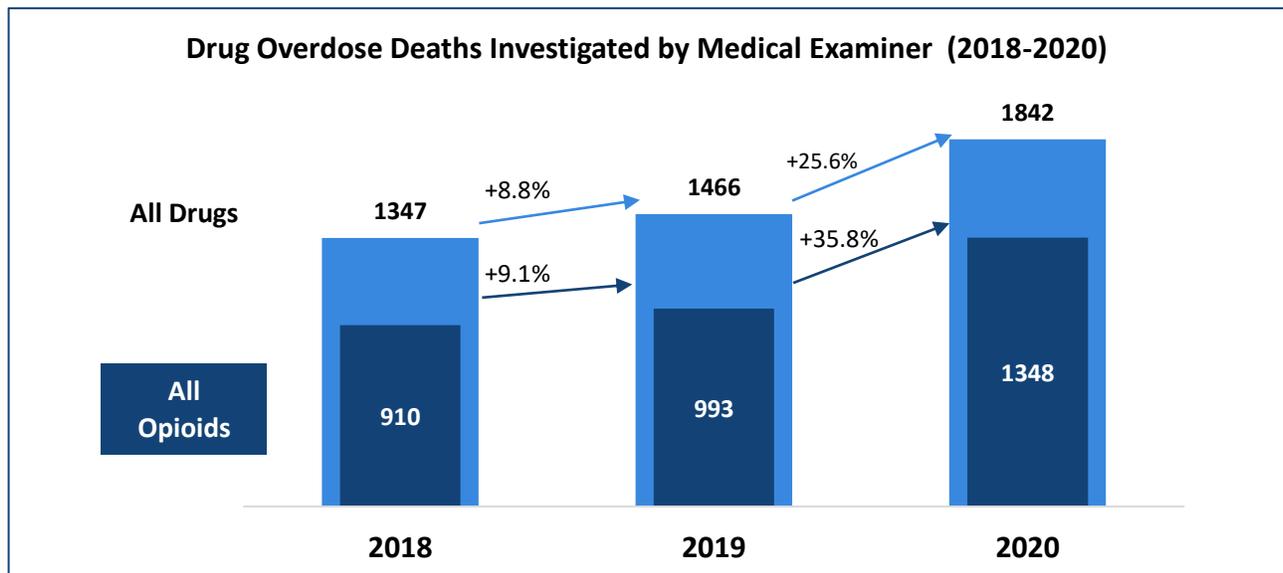


Addiction/Substance Abuse

Addiction and substance abuse was selected as one of the top priorities for the JVs. In 2019, substance overdoses ranked eighth for inpatient hospitalization visits and ninth for emergency department visits. As of 2019, American Indians had the highest death rate for unintentional drug overdoses and the highest alcohol-related hospitalization rate. Adults aged 35-44 had the highest drug overdose death rate and those 55-64 had the highest alcohol-related hospitalization rate. Males experienced higher rates of hospitalization and death due to substance abuse than females.^{xxix, xxx}

According to drug overdose deaths investigated by Maricopa County's medical examiner, from 2019 to 2020 all drug-related overdoses increased by 25.6% and opioid-related overdoses increased by 35.8%. Fentanyl became an increasingly high proportion of opioid-related overdoses (Figure 7).^{xliii}

Figure 7



Social isolation and anxiety due to COVID-19 have likely contributed to an increase in substance use and related injuries and death.^{xliv} Substance use rose as a theme both in COVID-19 impact focus groups and the open-ended portion of the survey. One individual described the negative impact COVID-19 had on their substance use recovery:

"I have been VERY isolated and that is hard on my mental health and my long-term recovery from substance abuse (28 years)."

(55-64 years old, COVID-19 Impact Survey)

Many healthcare facilities saw an increase in substance-related visits. The following survey participant shared their experience working on the frontlines of the pandemic and seeing the related health issues:

"I am an RN who was working on the COVID unit....We are seeing a lot of drug and alcohol cases- from loss: loss of jobs, families, support. I think we need more help getting people help at home- detoxing safely, outlets etc."

(35-44 years old, COVID-19 Impact Survey)



Cancer

Cancer is a significant health issue facing the population today. Lung cancer is the 5th leading cause of death, and breast cancer the 8th leading cause of death for Maricopa residents.^{xxx} Rates of deaths due to cancer increase with age, except for cervical cancer which typically occurs in women 64 and younger. In 2019, lung cancer was the leading type of cancer-related death for individuals 64 - 75+ (Figure 8).^{xxx} In Arizona, the top types of cancer-related deaths were due to Lung, Breast, and Prostate cancer (Figure 9).^{xlv}

Figure 8

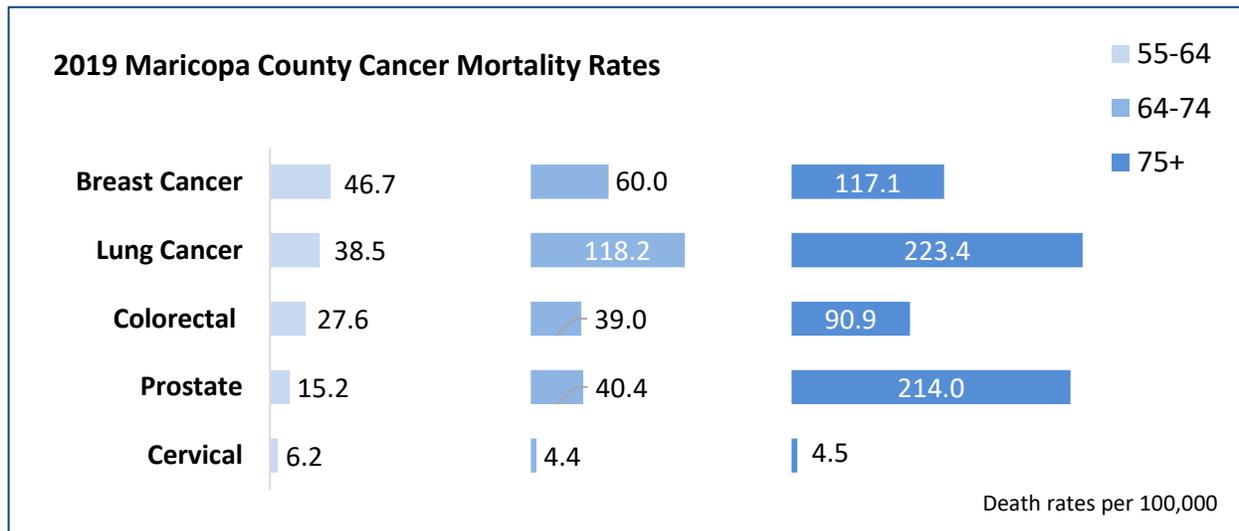
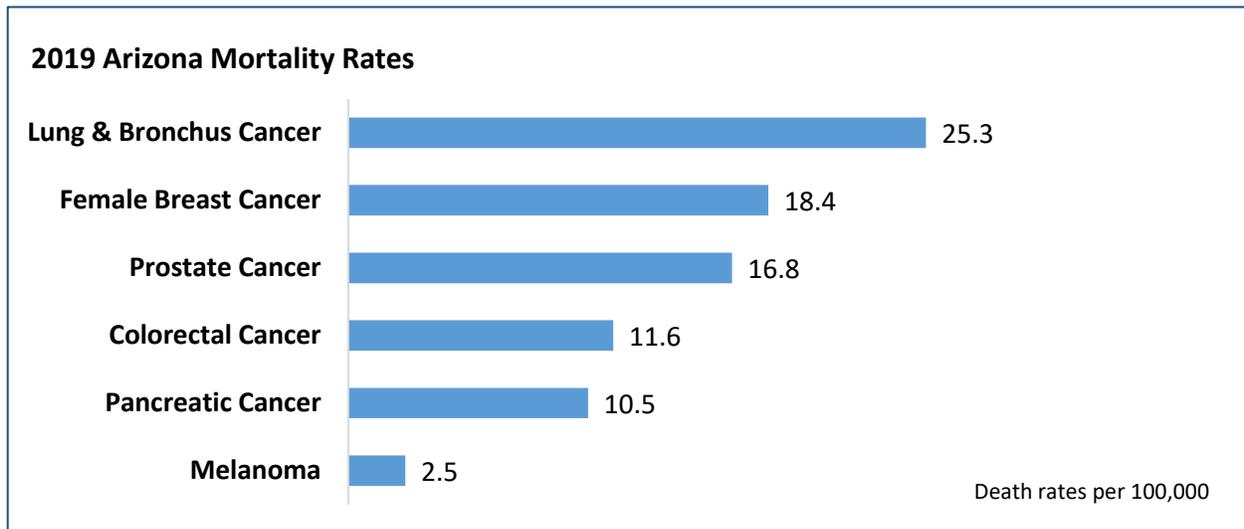


Figure 9



Cancer was selected as a priority issue for the JVs due to the high rates of incidence among the service area population. COVID-19 has exacerbated cancer-related death and illness. According to a study conducted in 2020, the impact of the COVID-19 pandemic on cancer care in the US has resulted in decreases and delays in identifying new cancer and delivery of treatment. If unmitigated, these problems will increase cancer morbidity and mortality for years to come.^{xlvi}

Participants in the COVID-19 impact survey shared experiences that reflected the trends seen for delayed cancer screening and care. This participant described how fear of COVID-19 infection and exposure at healthcare clinics led to a family member not receiving their cancer diagnosis early enough to pursue treatment:

“My mother died of pancreatic cancer because she was scared to go to the doctor in a timely manner. She started experiencing symptoms in March of 2020, and by the time we were able to force her to the doctor when we were finally able to see her, it was too late, and she was dead by the end of September 2020.”

(45-54 years old, COVID-19 Impact Survey)

Individuals with cancer faced even greater risk of COVID-19 infection due to their weakened immune system and underlying conditions. Furthermore, crisis standards of care across the state led to the cancellation of routine treatments and procedures that may have improved cancer patients’ chances of recovery. The following participant shares their experience of losing family members both to COVID-19 and to cancer:

“I had family 3 members die because of covid. One person is dying now of cancer because they could not get cancer treatment during covid & now it has spread to the point they can't do anything for them. We tried to be careful, but work required us to meet with the public.”

(55-64 years old, COVID-19 Impact Survey)



Affordable Housing/Homelessness

Affordable housing/homelessness was selected as a priority issue for the JVHs. The lack of affordable housing and the limited scale of housing assistance programs contributes to the current housing crisis and to homelessness. High rent burdens, overcrowding, and substandard housing, has increased the number of people without housing and at risk of losing housing.^{xlvii} In the 2019 community survey, 21.1% of participants indicated lack of affordable housing as one of the issues that had the greatest impact on their community’s health and wellness. In the 2021 COVID-19 impact survey, affordable housing was deemed as a more prominent issue with 24.6% of respondents indicating this concern.

Housing and homelessness are issues that have been exacerbated by the pandemic. COVID-19 is widening the racial and economic gaps in access to safe, affordable, and stable housing. In 2019, almost half of renters in Maricopa County (45.1%) and Arizona (44.5%) were considered cost-burdened, or gross rent that is 30% or more of household income (Figures 10 & 11).^{xlviii}

Figure 10

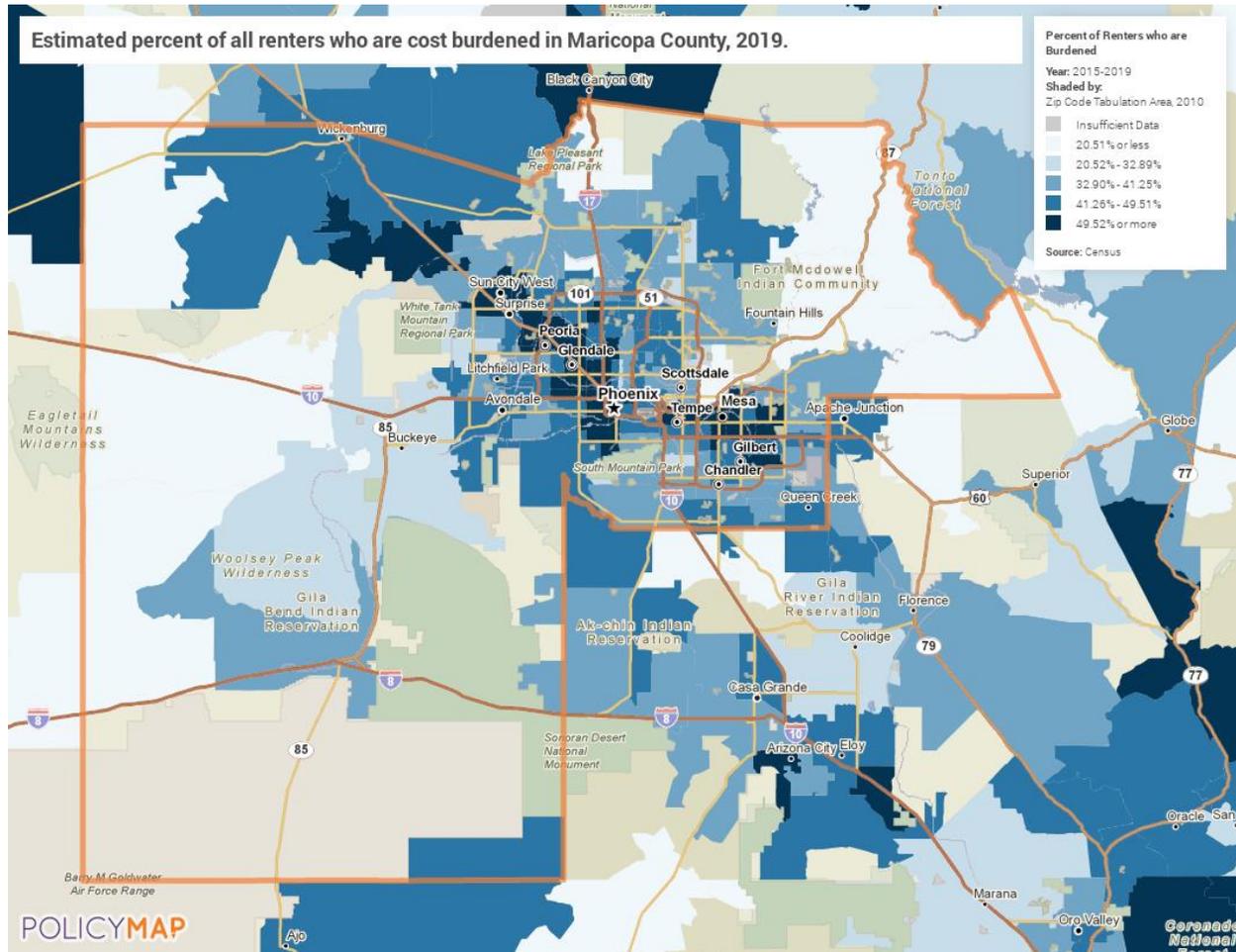
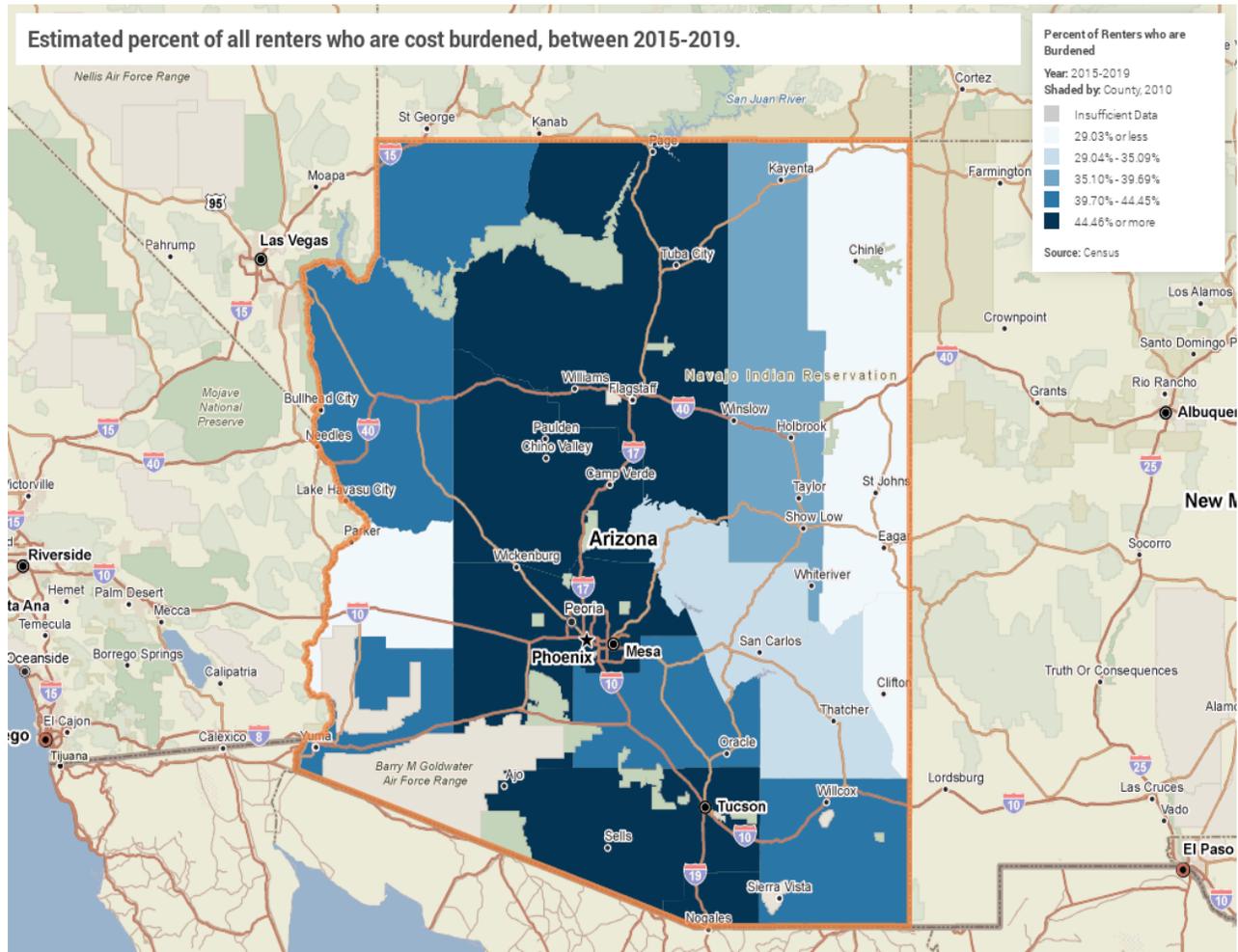


Figure 11



Affordable housing was an issue before COVID-19 and was greatly exacerbated by the pandemic. A participant from the COVID-19 impact survey shared their experience of struggling to pay for rent as a single parent:

“We need more affordable housing in the valley...I have seen too many people lose their jobs as even before the pandemic they were barely able to pay rent. Rent is way too high even in certain affordable housing apartments. My rent has increase 3 times in 3 years and I live in an affordable housing apartment. Rent is over \$900 now and that is tough for a single parent.”

(25-34 years old, COVID-19 Impact Survey)

Along with the many other burdens of the pandemic, many families had to navigate losing their homes unexpectedly. This participant described their homelessness experience due to the lack of affordable housing on the market:

“I am currently homeless with my disabled veteran husband and our 7 children because affordable homes are unavailable. We lost our home because our landlord decided to sell while prices were high, and we had no protections because we paid our rent in full and on time. We have been looking for 2 months, and have had no luck. This isn't right.”

(25-34 years old, COVID-19 Impact Survey)



Access to Healthcare

Access to Care

Access to healthcare has been a longstanding challenge for many communities, and the current COVID-19 pandemic has only exacerbated this issue. Having access to care allows individuals to enter the health care system, find care easily and locally, pay for care, and get their health needs met. Access to affordable, quality health care is important to physical, social, and mental health. Health insurance helps individuals and families access needed primary care, specialists, and emergency care, but does not necessarily ensure access – providers are needed to offer available and affordable care within adequate proximity to patients.^{xlix}

Financial Security

Financial security was selected as a priority issue for the JVHs. Those without insurance, and even those with insurance, have higher out of pocket expenses which can quickly accumulate for individuals with chronic conditions. Many people face barriers that prevent or limit access to needed health care services, which may increase the risk of poor health outcomes and health disparities. Inadequate health insurance coverage is one of the largest barriers to health care access. Out-of-pocket medical care costs may lead individuals to delay or forgo needed care (such as doctor visits, dental care, and medications), and medical debt is common among both insured and uninsured individuals.ⁱ In the 2021 survey, only 46% of respondents reported that they had not experienced any barriers accessing health care.

The COVID-19 pandemic has shocked the health care system. Since the beginning of the pandemic, visits to primary care physicians and outpatient specialists have declined, and many hospitals have postponed or cancelled elective procedures. Meanwhile, some hospitals have seen a surge in patients and have had to expand capacity and purchase expensive personal protective equipment. These trends have compounded problems in a fragmented health care system that has persistent gaps in access to affordable coverage and care, especially for people of color.ⁱⁱ According to the CDC's Research and Development Survey (RANDS), nearly 40% of people have reduced access to medical care due to COVID-19, with the largest age range of 45-64 years to report not receiving planned care.ⁱⁱⁱ Affordability of health care has been and continues to be a long-standing problem faced by many communities. A participant from the COVID-19 impact survey shared their experience with healthcare affordability:

“Even as someone who has remained employed, at an above average salary, I cannot afford the copays required for frequent doctor visits, let alone dental care and mental health care. I have had many chronic symptoms for months that sound like long covid but just can't afford to get thoroughly checked out.”

(35-44 years old, COVID-19 Impact Survey)

Another participant from the COVID-19 impact survey shared their positive experience with access to health insurance throughout their unemployment period:

“I am very grateful for the access to health insurance that I was given when I went on unemployment. That was a lifesaver for me, especially when I contracted covid. I wish Phoenix would create a universal healthcare system with this wonderful insurance.”

(35-44 years old, COVID-19 Impact Survey)

Uninsured adults are less likely to receive preventive services for chronic conditions such as diabetes, cancer, and cardiovascular disease.^{liii} In 2019, almost 11% of residents in Maricopa County (10.6%) and Arizona overall (10.4%) were uninsured (Figures 12 & 13).

Figure 12

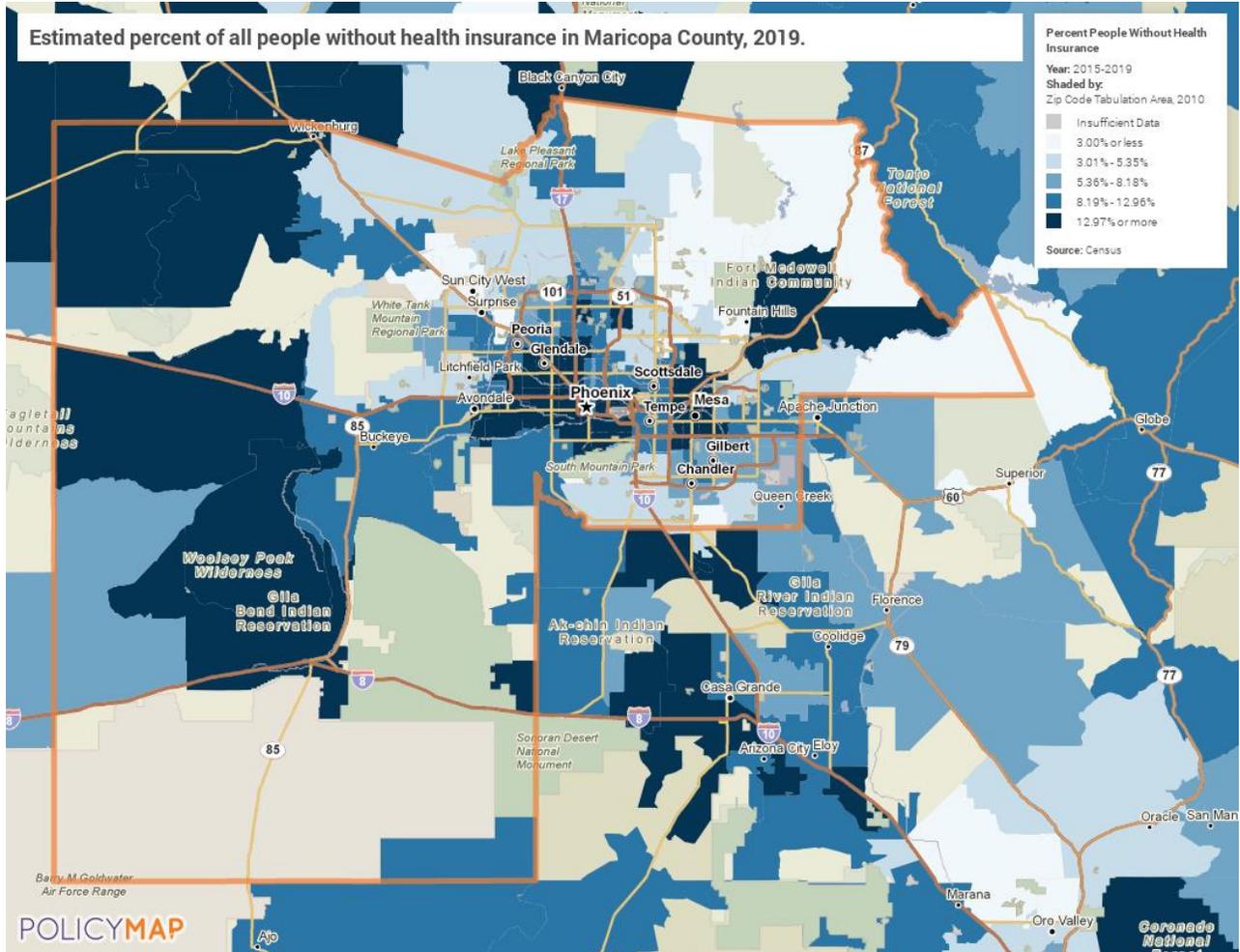
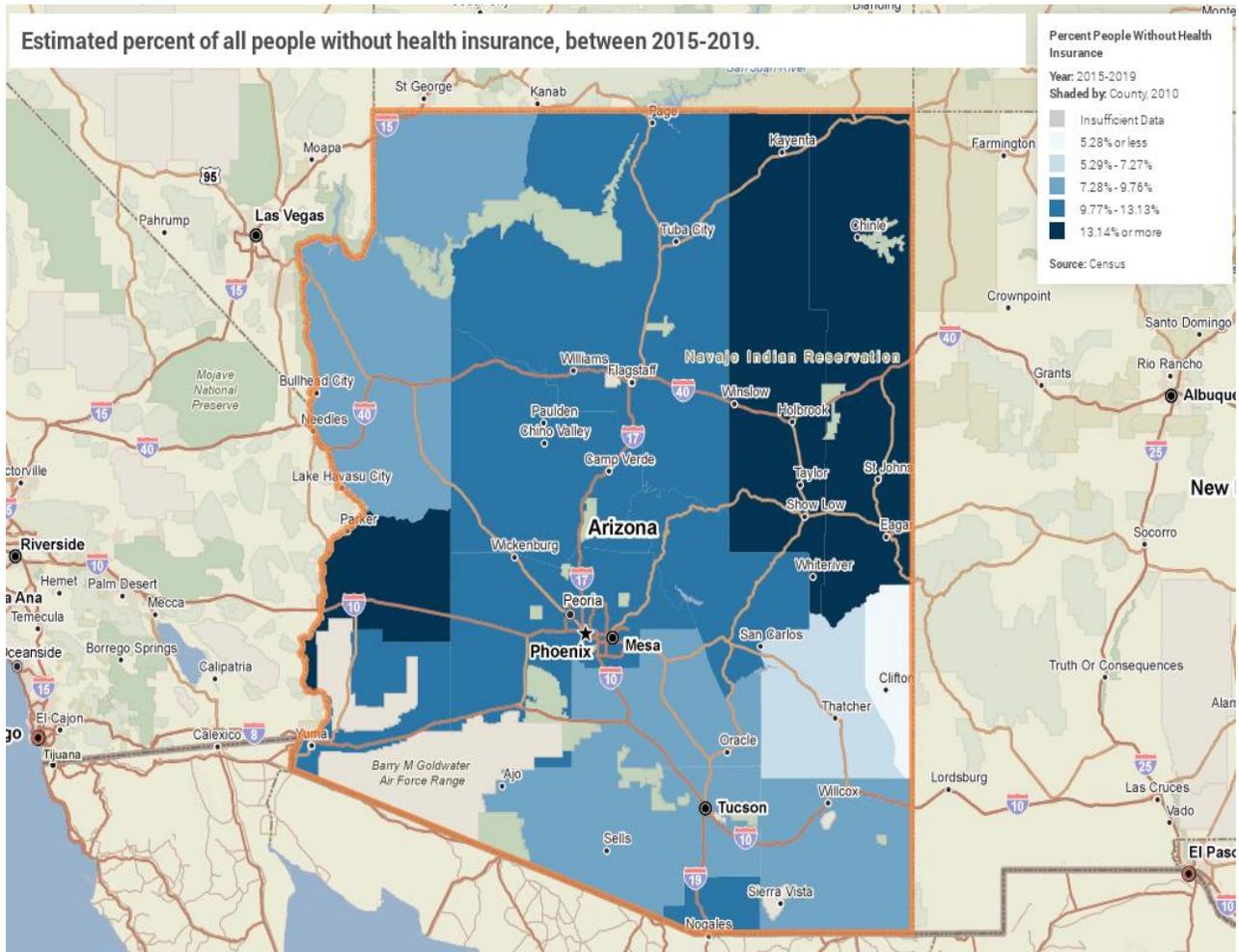


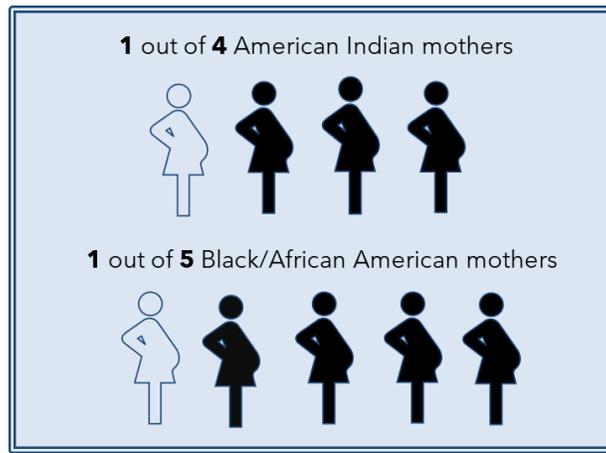
Figure 13



Maternal and Child Health

Maternal and child health was selected as a priority issue for the JVs. In many communities, women, newborns, and children are the most vulnerable to health problems.^{liv} Mothers who do not receive the prenatal care that they need or do not have the ability to acquire health care, both for mental and physical, are at an increased risk of experiencing a low-birth weight baby, pre-term delivery, or even infant death. A pre-term baby or a baby born with a low-birth weight is in turn at higher risk for other serious complications. In 2019, Black/African American and American Indian mothers in Maricopa County were most likely to receive inadequate prenatal care (Figure 14).^{lv}

Figure 14



According to the CDC, pregnant and recently pregnant women face a higher risk for severe illness from COVID-19 than nonpregnant women.^{lv} Pregnant women with COVID-19 face a higher risk for preterm birth and other adverse pregnancy outcomes. For many, potential COVID-19 infections added severe strain to women and families during the pregnancy period and created heightened risk during routine medical care and exposure in hospitals during delivery. One survey respondent described their experience contracting COVID-19 after giving birth:

“I was pregnant during the pandemic and gave birth [in December 2020]. I was exposed to COVID while in the hospital and became very ill postpartum. I am currently dealing with long COVID.”

(25-34 years old, COVID-19 Impact Survey)

Along with posing physical health risks, the pandemic reduced the typical social and mental health supports women benefit from during pregnancy and postpartum. Many mothers struggled during the pandemic with the stress of keeping themselves and their children safe, as well as going through pregnancy, birth, and postpartum with limited social support. One mother who responded to the community survey noted that isolation turned what was supposed to be a joyous event into a very stressful and somewhat depressing event.

“Had a baby in April 2020 and navigating that during the pandemic was incredibly stressful. Giving birth, follow-up appointments with pediatrician and only one parent allowed no support from family...all of this made what was supposed to be a joyous event very stressful and somewhat depressing.”

(35-44 years old, COVID-19 Impact Survey)



Food Insecurity

Food insecurity was selected as a priority issue for the JVs, as it continues to be a long-standing concern among many communities. Food insecurity does not exist in isolation, as low-income families are affected by multiple overlapping issues like affordable housing, economic/social disadvantage resulting from structural racism, chronic/acute health problems, high medical expenses, and low wages. COVID-19 has exposed and exacerbated serious disparities in food security due to employment issues, inflated prices, and food system interruptions. In collaboration with the National Food Access and COVID-19 Research Team, Arizona State University’s College of Health Solutions surveyed more than 600 households in Arizona from July 1 to August 10, 2020, to get a better understanding of the impact of COVID-19 on food insecurity in Arizona. Some key findings include that almost 1 in 3 (32%) of Arizona households experienced food insecurity since COVID-19 – a 28% increase from the year prior, when the food insecurity rate was 25%. Additionally, about 1 in 8 households bought food on credit (14%), borrowed money from friends and family for food (12%), and/or received food from food pantries (13%) during the pandemic.^{lvii}

In the 2021 COVID-19 impact survey, almost one-fifth (16.0%) of Maricopa County residents indicated that they sometimes or never had enough money to pay for essentials such as food since March of 2020. To assist with the essential cost of living expenses such as food, several Maricopa County residents indicated that since March of 2020 they applied for financial assistance such as Women, Infant, and Children (WIC) (2.0%) and SNAP food stamps (6.4%). Figures 15 and 16 displays the number of food insecure people, food insecurity rate, and the estimated program eligibility among food insecure people in Maricopa County and Arizona. In 2019, the food insecurity rate in Maricopa County was 11.7% compared to Arizona’s rate of 12.6%.^{lviii}

Figure 15

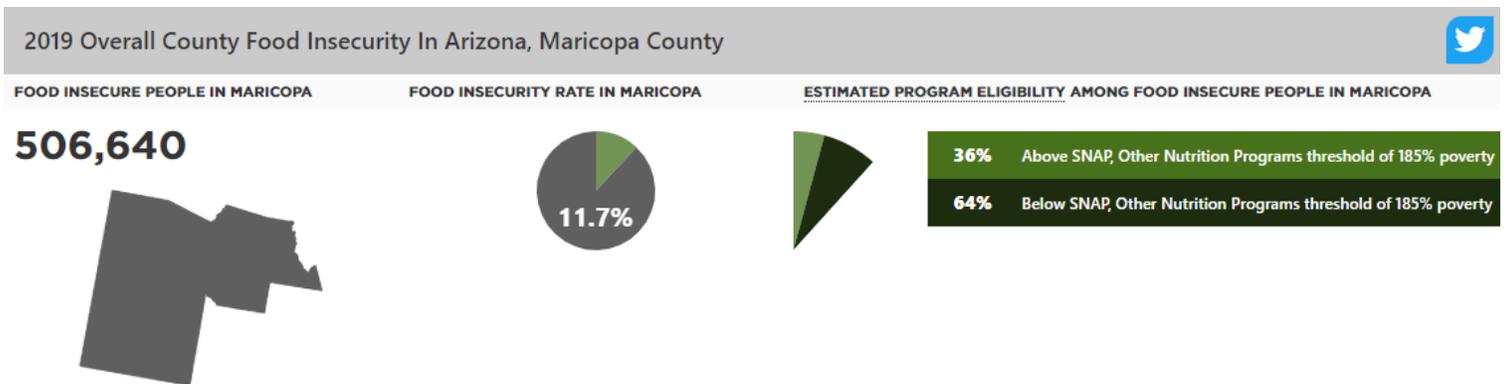
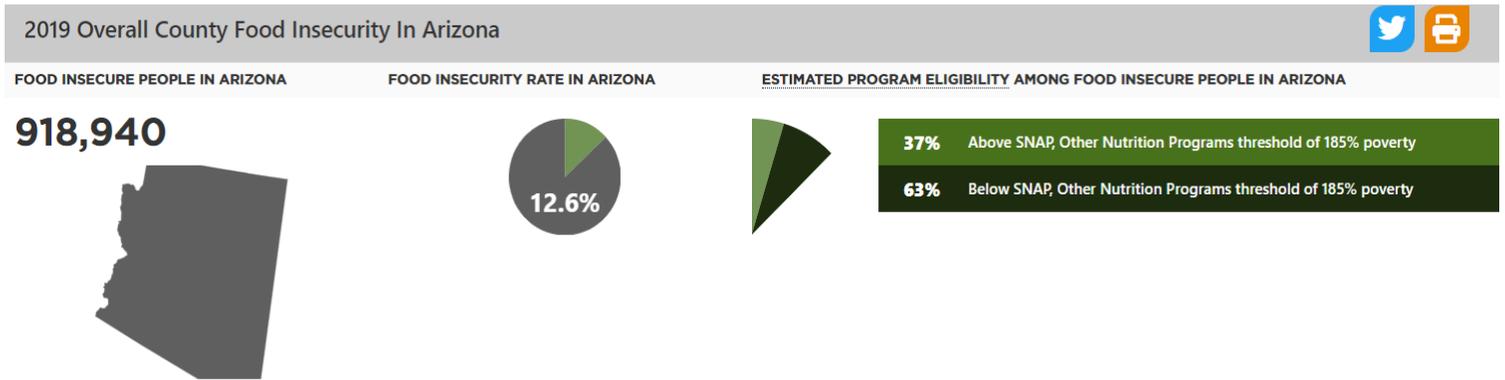


Figure 16



Food hardships became very evident among many communities, especially throughout the pandemic. The following participant from the COVID-19 impact survey shared their experience about their financial struggle in attaining groceries:

“During the pandemic due to the lack of money it was difficult to get food in stores, but I want to take a moment to say thank you to the people that donated food to food banks because thanks to them, my family was able to have meals and be able to stretch the money from the food stamps benefits. Thanks very much.”

(25-34 years old, COVID-19 Impact Survey)

Nutrition assistance also became a barrier for individuals and families as many programs failed to accommodate their needs. This COVID-19 impact survey participant described their challenges in seeking nutrition assistance for their mother:

“The difficulty I have had trying to get government assistance for my elderly mother (82yrs old)... She needs SNAP but doesn't qualify and continually doesn't have money for food at the end of the month.”

(35-44 years old, COVID-19 Impact Survey)

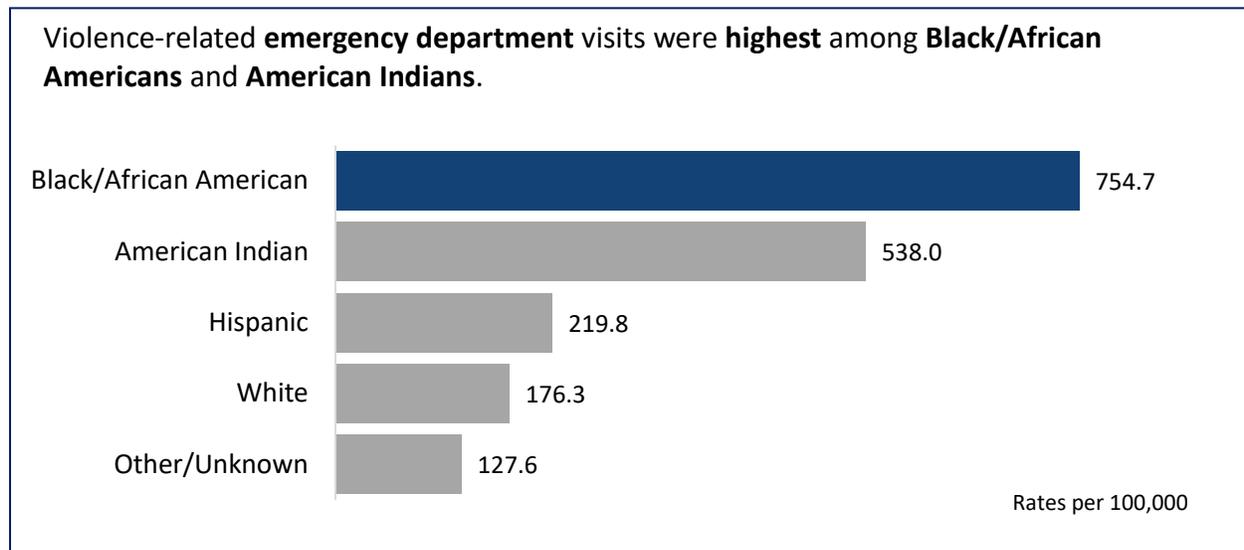


Safety & Violence: Unintentional Injuries

Safety & Violence

Safety and violence – including unintentional injuries – was selected as a priority issue for the JVs. Both unintentional injuries and those caused by acts of violence such as intimate partner violence and child maltreatment are among the top leading causes of death of all ages. Most events resulting in injury, disability, or death are predictable and preventable. Beyond their immediate health consequences, injuries and violence have a significant impact on the long-term well-being of individuals, contributing to premature death, disability, poor mental health, high medical expenses, and lost productivity. The effects of injuries and violence extend beyond the injured person or victim of violence to family members, friends, coworkers, employers, and communities.^{lix} Victim violence was ranked seventh in emergency department visits. In 2019, there were over 4,500 unintentional injuries in Arizona.^{lx} In Maricopa County, violence-related emergency department visits were highest among Black/African Americans and American Indians (Figure 17).^{xxix}

Figure 17



Unintentional injuries, such as falls and motor vehicle crashes, are a major issue in many communities. Accidental injuries can affect anyone, regardless of age, sex, race or socioeconomic background – but can be exacerbated by disparities in safe housing or transportation. Effective recovery often depends on appropriate access to care. Recognizing the social and economic contributors to and burdens of injury and violence is critical to determine the appropriate level of intervention and investment into prevention activities.^{lxi} In 2019, falls ranked first in emergency department visits, third in inpatient hospitalization visits, and the tenth leading cause of death in Maricopa County.^{xxix, xxx} Falls are highest within the younger and older populations. In 2019, rates of emergency department visits due to a motor vehicle crash were highest among teenagers and young adults between the ages of 15-34 in Maricopa County.^{xxix}

COVID-19 has impacted many communities far beyond the obvious physical implications of the disease, and the connections between COVID-19 and injury have become increasingly clear. Social distancing precautions, new sources of stress, and disruptions to daily routines can also take a toll on risk and protective factors related to injury and violence.^{lxii} A participant in the COVID-19 impact survey shared their family experience that reflected the trends seen for unintentional injuries:

“My father fell and was in a rehab facility where they had Covid -19 patients on a different floor. He got Covid-19 and died. He was healthy in general despite a muscular injury to his thigh.”

(75+ years old, COVID-19 Impact Survey)

Throughout the pandemic, in addition to the soaring rates of unintentional injuries there has also been an increase in crime and violence. The following participant shared their experience of increased local gang violence and crime in their neighborhood:

“In the last 3 months, local gang violence and crime has increased in our neighborhood. People drive crazy and there have been several accidents. We have had shootings as well. The area around 83 Ave and Indian School/ Camelback is very concerning.”

(45-54 years old, COVID-19 Impact Survey)

Resources Potentially Available to Address Needs

Resources potentially available to address identified needs include services and program available through hospital, government agencies, and community-based organizations. Resources include access to hospital emergency and acute services. Federally Qualified Health Centers (FQHCs), food banks, homeless shelter, faith communities, transportation services, health navigators, and prevention-based community education.

Community Resources

The following community organizations have resources potentially available to address the identified significant health needs. Dignity Health partners with several of these organizations to provide connected care to the Maricopa County community. A complete list of resources potentially available can be found in Appendix G.

| Health Need | Resources Potentially Available |
|---|---|
| Access to Care <ul style="list-style-type: none"> • Financial Security • Maternal and Child Health | <ul style="list-style-type: none"> • Chicanos Por La Causa / Keogh Health Connection - Enrollment Specialists, Social Services, Economic Development • Foundation for Senior Living - hospital discharge transition • Mission of Mercy - mobile clinic • Mountain Park Health Center - access to healthcare • Adelante Healthcare - access to healthcare |
| Affordable Housing / Homelessness | <ul style="list-style-type: none"> • Chicanos Por La Causa - Housing • Maggie’s Place • Central Arizona Shelter Services (CASS) - Homeless Shelter • Phoenix Rescue Mission - Homelessness • Circle the City - Respite Care, Homelessness |
| Food Insecurity | <ul style="list-style-type: none"> • St. Mary’s Food Bank - Food Boxes • St. Vincent de Paul - Food Boxes, Food Pantry • Creighton Community Foundation - food boxes, community gardens, food and nutrition projects • Phoenix Rescue Mission - Food Bank • Diana Gregory Outreach Services Foundation - mobile produce market |

| | |
|---|---|
| <p>Safety & Violence</p> <ul style="list-style-type: none"> • Unintentional Injuries | <ul style="list-style-type: none"> • Phoenix Dream Center - Human Trafficking • Streetlight USA - Human Trafficking • A New Leaf - Domestic Violence • The Faithful City - Domestic Violence, Trafficking • Jewish Family & Children’s Service - Domestic Violence |
| <p>Mental Health</p> | <ul style="list-style-type: none"> • Phoenix Indian Center - mental health services • Human Services Campus - mental health • Native American Connection - behavioral health |
| <p>Chronic Health Conditions:</p> <ul style="list-style-type: none"> • Obesity • Diabetes • Cardiovascular Disease | <ul style="list-style-type: none"> • Healthier Living Program - Chronic Disease Education Program, Cooking Class • American Diabetes Association - Diabetes Education and Support • Arizona Diabetes Foundation - Education Programs |
| <p>Addiction / Substance Abuse</p> | <ul style="list-style-type: none"> • Phoenix Indian Center - substance abuse • Tempe Community Action Agency - Substance Abuse Treatment • Jewish Family & Children’s Service - Substance Abuse Counseling • Hushabye Nursery - Substance exposed babies and mothers |
| <p>Cancer</p> | <ul style="list-style-type: none"> • Cancer Support Community of Arizona - Cancer Resource Navigator, access to care • American Cancer Society |

Hospital Resources

The following hospital programs have resources potentially available to address the identified significant health needs. SJHMC partners with various hospital departments to provide connected care to the Maricopa County community. A complete list of resources potentially available can be found in Appendix G.

| Health Need | Hospital Resource |
|----------------------------|---|
| Access to Healthcare | <ul style="list-style-type: none"> • MOMobile • Financial Assistance Committee • NaviHealth (community referrals) • Mission of Mercy (primary care to uninsured) |
| Mental / Behavioral Health | <ul style="list-style-type: none"> • Prenatal & Parenting classes • Community Medical Services |
| Chronic Disease | <ul style="list-style-type: none"> • Healthier Living with Chronic Conditions / Tomando Control de tu Salud • Diabetes Empowerment Education Program |
| Cancer | <ul style="list-style-type: none"> • SJHMC Cancer patient navigator (Cancer Support Community of Arizona) |
| Housing and Homelessness | <ul style="list-style-type: none"> • Homeless Initiative • Circle the City partnership for medical respite • Dignity Health Investments <ul style="list-style-type: none"> ○ Chicanos Por La Causa ○ Foundation for Senior Living ○ Housing Solutions of Northern Arizona ○ Native American Connections ○ Arizona Community Foundation |
| Safety and Violence | <ul style="list-style-type: none"> • Stop the Bleed • Balance Masters • Human Trafficking Taskforce |

Impact of Actions Taken since the Preceding CHNA

From fiscal year 2019 through fiscal year 2021, the Joint Venture Hospitals partnered with St. Joseph's Hospital and Medical Center to help address the needs listed below.

- Access to Care
- Chronic Disease
- Mental / Behavioral Health
- Safety & Violence

The Joint Venture Hospitals worked with SJHMC and other Dignity Health Arizona hospitals on their implementation strategies to address these needs and have a positive impact on community members through various efforts, including education, patient navigation, enrollment and outreach activities, "Healthier Living" disease self-management workshops, and fall prevention.

Below is a listing of key community benefit programs that also had impact since the preceding CHNA.

- MOMobile
- Financial Assistance Committee
- Transportation Services
- NaviHealth
- 2MATCH
- Docent Health
- Keogh enrollment specialist
- Cancer patient navigator
- CATCH Program
- ACTIVATE & Kindness Closet
- Mission of Mercy
- Prenatal & Parenting classes
- Community Medical Services
- Y-VIPP
- Smooth Way Home
- Healthier Living with Chronic Conditions / Tomando Control de tu Salud
- Diabetes Empowerment Education Program
- Muhammed Ali Parkinson's Center Programs
- Improving the Health of Uninsured Patients with Diabetes
- Viva! A Family Centered Obesity and Diabetes Prevention Program
- SJHMC Cancer patient navigator
- Lifestyle management workshops
- Medication assistance
- Support groups
- Homeless patient navigator
- Circle the City
- Coordinated Hospital Discharge and Diversion Program
- Stop the Bleed
- Balance Masters
- Wake Up! Youth Program
- Human Trafficking Taskforce
- Barrow – Baseline Concussion Testing
- Barrow – Brainbook
- Barrow – Health Professions education
- Barrow – Concussion Telemed

Appendices

The appendix includes the following documents:

Appendix A

2019 & 2021 Focus Group Discussion Schedules

Appendix B

2019 CHNA Focus Group Questions

2021 COVID-19 Focus Group Questions

2019 CHNA Survey Questions

2021 COVID-19 Impact Survey Questions

Appendix C

2019 & 2021 Community Survey Demographics

Appendix D

Maricopa County Zip Codes

Appendix E

Top Health Indicators Disparities in Maricopa County

Appendix F

List of Participating Organizations in the CBHEC and HEA Meetings

Appendix G

Resources Potentially Available

Appendix H

Data Indicator Matrix

Appendix I

References

Appendix A – Focus Group Discussion Schedule

2019 Focus Group Schedule

Cycle 1

| Date | Time | Population | Location |
|-----------------------------|--------------------------------|---|---|
| 4/8 (Mon.) | 6:00pm – 8:00pm | Native American Adult Males [n = 8] | Native American Fatherhood & Families Association (460 N. Mesa Dr, Suite 115, Mesa, AZ) |
| 4/16 (Tues.) | 10:00am – 12:00pm | Homeless Males over 60 [n = 10] | St. Vincent de Paul (420 W. Watkins Rd., Phoenix, AZ) |
| 4/17 (Wed.) & 5/16 (Thurs.) | 6:00pm -8:00pm & 5:30pm-7:30pm | Native American Adults [n = 17] | Mesa Public Schools (1025 N. Country Club, Mesa, AZ) & Native Health (East Valley) (777 W. Southern Ave., Building C, Mesa, AZ) |
| 4/18 (Thurs.) | 10:30am - 12:30pm | Homeless Women with Children [n = 15] | UMOM (3333 E. Van Buren St., Phoenix, AZ) |
| 4/18 (Tues.) | 5:30pm - 7:30pm | African American Males [n = 7] | Hatton Hall (34 E. 7 th St., Tempe, AZ) |
| 4/23 (Tues.) | 4:30pm - 6:30pm | LGBTQI Adults [n = 7] | Southwest Center for HIV/AIDS (Parson's Center) (1101 N. Central Ave, Phoenix, AZ) |
| 4/24 (Wed.) | 6:00pm – 8:00pm | Homeless Youth (14-21) [n = 7] | Native American Connections/HomeBase (931 E. Devonshire, Phoenix, AZ) |
| 4/25 (Thurs.) | 12:30pm- 2:30pm | Adults over 60 (New Retirees) [n = 13] | Ahwatukee Foothills Family YMCA (1030 E. Liberty Lane, Phoenix, AZ) |
| 4/26 (Fri.) | 10:30am- 12:30pm | New Parents [n = 7] | Adelante Healthcare – WIC Office (1705 W. Main St., Mesa, AZ) |
| 4/27 (Sat.) | 10:30am- 12:30pm | Homeless Veterans [n = 15] | MANA House (2422 W. Holly St., Phoenix, AZ) |
| 4/29 (Mon.) | 6:00pm - 8:00pm | Parents of Children with Special Health Needs [n = 9] | Ignacio Conchos Elementary School (1718 W. Vineyard Rd., Phoenix, AZ) |
| 4/30 (Tues.) | 6:00pm - 8:00pm | Parents of Children with Special Health Needs [SPANISH; n = 7] | Ignacio Conchos Elementary School (1718 W. Vineyard Rd., Phoenix, AZ) |
| 5/4 (Sat.) | 10:30am – 12:30pm | Filipino Adults [n = 8] | Chandler Community Center (125 E. Commonwealth Ave., Chandler, AZ) |
| 5/14 (Tues.) | 5:30pm - 7:30pm | Veterans [n = 7] | Tanner Community Development Corporation (700 E. Jefferson St., Phoenix, AZ) |
| 5/16 (Wed.) | 8:30am- 10:30am | New Parents [SPANISH; n = 11] | Moon Mountain Elementary School (13425 N. 19 th Ave, Phoenix, AZ) |

Cycle 2

| Date | Time | Population | Location |
|-----------------------------|--------------------------------|---|---|
| 4/8 (Mon.) | 6:00pm – 8:00pm | Native American Adult Males [n = 8] | Native American Fatherhood & Families Association (460 N. Mesa Dr, Suite 115, Mesa) |
| 4/16 (Tues.) | 10:00am – 12:00pm | Homeless Males over 60 [n = 10] | St. Vincent de Paul (420 W. Watkins Rd., Phoenix) |
| 4/17 (Wed.) & 5/16 (Thurs.) | 6:00pm -8:00pm & 5:30pm-7:30pm | Native American Adults [n = 17] | Mesa Public Schools (1025 N. Country Club, Mesa, AZ) & Native Health (East Valley) (777 W. Southern Ave., Mesa) |
| 4/18 (Thurs.) | 10:30am - 12:30pm | Homeless Women with Children [n = 15] | UMOM (3333 E. Van Buren St, Phoenix) |
| 4/18 (Tues.) | 5:30pm - 7:30pm | African American Males [n = 7] | Hatton Hall (34 E. 7 th St, Tempe) |
| 4/23 (Tues.) | 4:30pm - 6:30pm | LGBTQI Adults [n = 7] | Southwest Center for HIV/AIDS (Parson's Center) (1101 N. Central Ave, Phoenix) |
| 4/24 (Wed.) | 6:00pm – 8:00pm | Homeless Youth (14-21) [n = 7] | Native American Connections/HomeBase (931 E. Devonshire, Phoenix, AZ) |
| 4/25 (Thurs.) | 12:30pm- 2:30pm | Adults over 60 (New Retirees) [n = 13] | Ahwatukee Foothills Family YMCA (1030 E. Liberty Lane, Phoenix) |
| 4/26 (Fri.) | 10:30am- 12:30pm | New Parents [n = 7] | Adelante Healthcare – WIC Office (1705 W. Main St, Mesa) |
| 4/27 (Sat.) | 10:30am- 12:30pm | Homeless Veterans [n = 15] | MANA House (2422 W. Holly St, Phoenix, AZ) |
| 4/29 (Mon.) | 6:00pm - 8:00pm | Parents of Children with Special Health Needs [n = 9] | Ignacio Conchos Elementary School (1718 W. Vineyard Rd., Phoenix, AZ) |
| 4/30 (Tues.) | 6:00pm - 8:00pm | Parents of Children with Special Health Needs [SPANISH; n = 7] | Ignacio Conchos Elementary School (1718 W. Vineyard Rd., Phoenix, AZ) |
| 5/4 (Sat.) | 10:30am – 12:30pm | Filipino Adults [n = 8] | Chandler Community Center (125 E. Commonwealth Ave., Chandler, AZ) |
| 5/14 (Tues.) | 5:30pm - 7:30pm | Veterans [n = 7] | Tanner Community Development Corporation (700 E. Jefferson St, Phoenix, AZ) |
| 5/16 (Wed.) | 8:30am- 10:30am | New Parents [SPANISH; n = 11] | Moon Mountain Elementary School (13425 N. 19 th Ave, Phoenix, AZ) |

Cycle 3

| Date | Time | Population | Location |
|---------------------------|------------------------|--|---|
| 10/16 (Wed.) | 1:00 pm – 3:00 pm | Native Americans - Young adults (19-24) | ASU Discovery Hall 250 E Lemon St. Tempe 85281 |
| 10/17 (Thurs.) | 10:00 am – 12:00 pm | Immigrants/Refugee/Asylum Seekers - Congolese | IRC 4425 W Olive #400 Glendale 85302 |
| 10/17 (Thurs.) | 1:30 pm – 3:30 pm | Asian Americans - South and southeast Asia [n = 29] | Asian Pacific Community in Action-IACRF Hall 2809 W Maryland Phoenix 85017 |
| 10/22 (Tues) | 4:00 pm – 6:00 pm | LGBTQ - Young adults (19-24) | One.n.ten 931 #202 Phoenix 85004 |
| 10/28 (Mon.) | 11:00 am – 1:00 pm | Homeless - Young adults (19- 24) | Homebase 931 E Devonshire Phoenix 85014 |
| 11/1 (Sat.) | 1:00 pm – 3:00 pm | Youth Focus Groups (14 - 18) - African Americans 1 | Ironwood Library 4333 E Chandler Phoenix 85048 |
| 11/5 (Tues.) | 10:00 am – 12:00 pm | Adults over 65 - Hispanic/Latino [n = 6] | Gila Bend Family Resource Center 303 E Pima St, Gila Bend, AZ 85337 |
| 11/6 (Wed.) | 5:30 pm – 7:30 pm | People Living with Special Healthcare Needs - Parents/caregivers | Sunset Library 4930 W Ray, Chandler |
| 11/7 (Thurs.) | 12:00 pm – 2:00 pm | Adults over 65 - African Americans [n = 12] | Muriel Smith Center 2230 W Roeser Rd, Phoenix 85041 |
| 11/7 (Thurs.) | 5:00 pm – 7:00 pm | African Americans- Young adults (19-24) [n = 4] | Muriel Smith Center 2230 W Roeser Rd, Phoenix 85041 |
| 11/12 (Wed.) | 5:00 pm – 7:00 pm | Youth Focus Groups (14-18) - Homeless | UMOM 2344 E Earll Drive |
| 11/13 (Wed.) | 8:30 am – 10:30 am | Youth Focus Groups (14 - 18) - Hispanic | Natalie's room North High School 1101 E Thomas Phoenix 85014 |
| 11/13 (Wed.) | 4:00 pm – 6:00 pm | People who have been previously incarcerated – combined | Black Canyon building 2445 W Indianola |
| 11/13 (Wed.) | 5:00 pm – 7:00 pm | Youth Focus Groups (14 - 18) - Native American | Seewa Tomteme Community Center 8066 S Avenida del Yaqui Guadalupe 85283 |

2021 Focus Group Schedule

| FG# | Date | Region | Group (Location/provider) | Number |
|---------------------------|-----------|---------------|--|------------|
| 1 | 2/16/2021 | SE | I-HELP Chandler | 8 |
| 2 | 2/17/2021 | Central | Native Health- Phoenix | 8 |
| 3 | 2/18/2021 | NE | Paiute - South Scottsdale | 4 |
| 4 | 2/18/2021 | SE | Native Health - Mesa | 5 |
| 5 | 2/25/2021 | NW | Sun Health - NW Valley | 5 |
| 6 | 3/02/2021 | NW | Sun Health - NW Valley | 5 |
| 7 | 3/10/2021 | South Central | South Mountain | 6 |
| 8 | 3/12/2021 | NW | Family Resource Center –English | 6 |
| 9 | 3/19/2021 | NW | Family Resource Center-Spanish | 5 |
| 10 | 3/24/2021 | SW | Gila Bend - English | 8 |
| 11 | 3/26/2021 | SW | Gila Bend - Spanish | 6 |
| 12 | 3/29/2021 | NE | Paiute, S. Scottsdale – Spanish - 9am | 8 |
| 13 | 3/29/2021 | NE | Paiute, S. Scottsdale – Spanish - 11:30 | 6 |
| 14 | 3/30/2021 | South Central | South Phoenix (AA/Black) | 6 |
| 15 | 4/07/2021 | SE | Gilbert - AZCEND Moms Club Gilbert | 6 |
| 16 | 4/26/2021 | South Central | S Phoenix Young Parents | 5 |
| 17 | 5/10/2021 | SE | African American/Black Women 85048 | 5 |
| 18 | 5/12/2021 | South Central | Parents w/minors living home 85041 | 4 |
| 19 | 5/14/2021 | * | Asian Americans 65+ | 8 |
| 20 | 5/16/2021 | NW | Parents of Young Children 85086 | 4 |
| 21 | 5/17/2021 | * | Hispanic/Latino Men | 6 |
| 22 | 5/17/2021 | * | Asian Americans | 7 |
| 23 | 5/20/2021 | * | Racial/Ethnic Minority Young Adults | 7 |
| 24 | 5/27/2021 | * | Guadalupe | 6 |
| 25 | 6/01/2021 | * | LGBTQIA+ Community Members | 3 |
| 26 | 6/02/2021 | * | Veterans | 5 |
| 27 | 6/04/2021 | * | Parents with Young Children | 8 |
| 28 | 6/07/2021 | * | Expectant Mothers & Parents of Young Children | 5 |
| 29 | 6/08/2021 | * | Young Adults | 5 |
| 30 | 6/09/2021 | * | Seniors & Veterans | 2 |
| 31 | 6/11/2021 | * | Central Phoenix residents | 10 |
| 32 | 6/14/2021 | * | Immigrants - Spanish | 4 |
| 33 | 6/14/2021 | * | Refugees - Advocates | 4 |
| Total Participants | | | | 186 |

* Community members participated from various regions of Maricopa County

Appendix B – Primary Data Collection Tools

2019 Coordinated Community Health Needs Assessment Focus Group Questions

For the purposes of this discussion, “community” is defined as where you live, work, and play.

Opening Question (5 minutes)

To begin, why don't we go around the table and say your name (or whatever you would like us to call you) and what community event brings everybody out? (such as: festival, school play, sporting event, parade; what brings all the people together for fun)

General Community Questions (15 minutes)

I want to begin our discussion today with a few questions about health and quality of life in your community.

1. What does quality of life mean to you?
2. What makes a community healthy?
3. When thinking about health, what are the greatest strengths in your community?
4. What makes people in the community healthy?
 - a. Why are these people healthier than those who have (or experience) poor health?

Community Health Concerns (15 minutes)

Next, let's discuss any health issues you have in your community.

5. What do you believe are the 2-3 most important issues that should be addressed to improve health in your community?

[Prompt – ask this if it does not come up naturally]

- i. What are the biggest health problems/conditions in your community?
- ii. Do other communities in this area have the same health problems?

6. A) What makes it hard to access healthcare for people in your community?

[Prompt – ask this if it does not come up naturally]

- i. Are there any cost issues that keep you from caring for your health? (such as copays or high-deductible insurance plans)
- ii. If you are uninsured, do you experience any barriers to becoming insured?

- iii. If you do not regularly seek care, are there provider concerns that keep you from caring for your health? (prompt – ask if there are concerns about providers not identifying with them)

B) How do these barriers affect the health of your community? Your family? Children? You?

- 7. For this question, think about the last year. Was there a time when you or someone in your family needed to see a doctor but could not? Did anything keep you from going?

Community Health Recommendations (15 minutes)

As the experts in your community, I would like to spend this final part of the focus group discussion talking about your ideas to improve community health.

- 8. What are some ideas you have to help your community get or stay healthy? To improve the health and quality of life?

- 9. A) What else do you (your family, your children) need to maintain or improve your health?

[Prompt – ask this if it does not come up naturally]

- i. Services, support or information to manage a chronic condition or change health behaviors such as smoking, eating habits, physical activity, or substance use
- ii. Preventative services such as flu shots, screenings or immunizations
- iii. Specialty healthcare services or providers (such as heart doctors or dermatologists)

B) What health services do you or your family need that aren't in your community?

- 10. What resources does your community have/use to improve your health?

[Prompt – ask this if it does not come up naturally]

- i. Why do you use these particular services or supports?

Ending Question (5 minutes)

- 11. Is there anything else related to the topics we discussed today that you think I should know that I didn't ask or that you have not yet shared?

Facilitator Summary & Closing Comments (5-10 minutes)

Let's take a few minutes to reflect on responses you provided today. We will review the notes we took and the themes we observed. This is your opportunity to clarify your thoughts or to provide alternative responses. [Co-facilitator provides a brief summary of responses for each of the questions or asks clarifying questions if she thinks she may have missed something.]

Thank you for your participation in this focus group meeting. You have all raised a number of great issues for us to consider. We will look at what you have told us and use this information to make recommendations to area hospitals and the Maricopa County Department of Public Health

2021 COVID-19 Focus Group Questions

A. Information about COVID-19

Let's start our conversation about how COVID-19 has affected you and your family.

1. How has COVID-19 affected you and your family?
2. What do people close to you (e.g., your family/friends) say about the COVID-19 vaccine?
 - a. What about your neighbors? Faith/religious leaders or faith community?
 - b. PROBE: And what about schools (if applicable)? Colleagues? Employers? Medical professionals? How has COVID-19 affected you differently because of your race or ethnicity?
3. Where have you seen information about the COVID-19 vaccine?
 - a. PROBE: Word of mouth? TV? Radio? Social media (e.g., Facebook, Twitter, text message sources)? Online sources?
 - b. Where are some places you've noticed health messages in general?
 - i. PROBE: Grocery store? Shopping stores (e.g., Walmart, Costco, Walgreens, CVS)? Doctor's office? Health clinic? Community/faith-based organization? Other?
 - c. What kind of messaging are you seeing? What do you think of these messages? Do you think they reach Arizona's communities?
4. Who do you trust and/or rely on information or updates about the COVID-19 vaccine?
 - a. PROBE: Why do you trust this person/s?
 - b. PROBE: Who don't you trust? Why?
5. Is there anything about COVID-19 or vaccine that you want to know more about?
 - a. PROBE: Why would you like to know this information?
 - b. PROBE: How would you like to receive this information?
 - c. PROBE: Language preference? Radio? TV? Pamphlets?
6. Where do you usually go to get health care or for your health needs?
 - a. PROBE: Urgent care? Hospital/ER? Clinic? Telehealth?
7. What thoughts do you have on preventing COVID-19?
 - a. Where did you get that information?

B. Intent to get vaccinated against COVID-19

The following questions are about your intentions to get vaccinated against COVID-19 when a vaccine becomes available to the general public.

1. What do you think about a COVID-19 (Pfizer vaccine? Moderna? Johnson & Johnson)?
 - a. PROBE: What are some reasons you think that (about each)?
2. What are some reasons why you and/or your family did/ would get vaccinated for COVID-19?
 - a. PROBE: Where would you go?
3. What concerns do you have about getting vaccinated for COVID-19?
 - a. **NOTE: List concerns and probe – ex. “I don’t know what is in the vaccine?” ASK: What do you think is in it? What have you heard?
 - b. PROBE: What concerns do you have about elders getting vaccinated for COVID19? Children?
4. In your opinion, what barriers do you think there may be to get vaccinated against COVID-19 (e.g., cost)?
PROBE: perhaps you’ve already had the vaccine?
5. What challenges do you, your family, and/or your community have in getting the COVID19 vaccine?

C. Communication and Messaging

Now let’s discuss communication about COVID-19 and messaging.

1. What information would your reluctant family/friends need before getting the vaccine?
2. What are some ways we can communicate updates on “COVID-19 vaccines and research information” specifically to [BLACK, INDIGENOUS, HISPANIC/LATINO] communities?
 - a. PROBE: What are some things that may work?
3. What ways could community leaders build and maintain trust with your community [or BLACK, INDIGENOUS, HISPANIC/LATINO] communities?
4. What kind of messaging would you or your community need to know the vaccine is safe?
5. Do you think COVID has affected different groups of people differently? (Why do you think this is and how do you think we could we improve this situation?)

D. FINAL WRAP UP QUESTION

1. At this time, what do you and your family need to maintain or improve your health?
2. Is there anything else related to the topics we discussed today that you think I should know that I didn’t ask or that you have not yet shared?

2019 Maricopa County Community Health Needs Assessment Survey

The purpose of this brief survey is to get your opinion about issues related to community health and quality of life here in Maricopa County. Information collected in this survey will be kept confidential and used only in combination with others participating in the survey. No personal identifying information will be collected. Your feedback will be used to help guide future community health improvement planning efforts. Thank you for supporting your community. This survey should take about 10 minutes. If you have questions about the survey or need it provided in an alternative format, please visit <http://www.MaricopaHealthMatters.org>.

In this survey, “community” is defined as the areas where you work, live, learn and/or play.

1. **In general, how would you rate your physical health?**

Poor Fair Good Very Good Excellent

2. **How would you rate your mental health, including your mood, stress level, and your ability to think?**

Poor Fair Good Very Good Excellent

3. **How often are you able to get the services you need to maintain your mental health?**

Never Sometimes Always

4. **On a monthly basis, do you have enough money to pay for essentials such as food, clothing and housing?**

Never Sometimes Always

5. **In your community, do people trust one another and look out for one another?**

Never Sometimes Always

6. **On a monthly basis, do you have enough money to pay for health care expenses (e.g. doctor bills, medications, etc.)?**

Never Sometimes Always

7. **How do you pay for your health care (including medications, dental and health treatments)? (Check all that apply.)**

| | | | |
|---|---|--|---|
| <input type="checkbox"/> Health insurance purchased on my | <input type="checkbox"/> Health insurance purchased/provided through employer | <input type="checkbox"/> I do not use health care services | <input type="checkbox"/> Indian Health Services |
|---|---|--|---|

| | | | |
|---|--|--|---|
| own or by family member | | | |
| <input type="checkbox"/> Medicaid/AHCCCS | <input type="checkbox"/> Medicare | <input type="checkbox"/> Travel to a different country to afford health care | <input type="checkbox"/> Use free clinics |
| <input type="checkbox"/> Use my own money (out of pocket) | <input type="checkbox"/> Veterans Administration | <input type="checkbox"/> Other: _____ | |

8. What are the biggest barriers to accessing healthcare in your community? (Check up to 3.)

| | | | |
|---|--|---|--|
| <input type="checkbox"/> Childcare | <input type="checkbox"/> Difficulty finding the right provider for my care | <input type="checkbox"/> Distance to provider | <input type="checkbox"/> Inconvenient office hours |
| <input type="checkbox"/> No health insurance coverage | <input type="checkbox"/> Not enough health insurance coverage | <input type="checkbox"/> Transportation to appointments | <input type="checkbox"/> Understanding of language, culture, or sexual orientation differences |
| <input type="checkbox"/> Other: _____ | | | |

9. What are the greatest strengths of your community? (Check all that apply.)

| | | | |
|---|--|---|--|
| <input type="checkbox"/> Ability to communicate with city/town leadership and feel that my voice is heard | <input type="checkbox"/> Accepting of diverse residents and cultures | <input type="checkbox"/> Access to affordable after school activities | <input type="checkbox"/> Access to affordable childcare |
| <input type="checkbox"/> Access to affordable healthy foods | <input type="checkbox"/> Access to affordable housing | <input type="checkbox"/> Access to community classes and trainings | <input type="checkbox"/> Access to cultural events |
| <input type="checkbox"/> Access to fitness programs | <input type="checkbox"/> Access to good schools | <input type="checkbox"/> Access to jobs & healthy economy | <input type="checkbox"/> Access to medical care |
| <input type="checkbox"/> Access to mental health services | <input type="checkbox"/> Access to parks and recreation sites | <input type="checkbox"/> Access to public libraries and community centers | <input type="checkbox"/> Access to public transportation |

| | | | |
|---|--|---|--|
| <input type="checkbox"/> Access to religious or spiritual events | <input type="checkbox"/> Access to safe walking and biking routes | <input type="checkbox"/> Access to services for seniors | <input type="checkbox"/> Access to social services for residents in need or crisis |
| <input type="checkbox"/> Access to substance abuse treatment services | <input type="checkbox"/> Access to support networks such as neighbors, friends, and family | <input type="checkbox"/> Clean environment and streets | <input type="checkbox"/> Good place to raise children |
| <input type="checkbox"/> Low crime/safe neighborhoods | <input type="checkbox"/> Other: _____ | | |

10. Which health conditions have the greatest impact on your community's overall health and wellness? (Check up to 5.)

| | | | |
|--|--|---|--|
| <input type="checkbox"/> Alcohol/Substance abuse | <input type="checkbox"/> Anorexia/bulimia and other eating disorders | <input type="checkbox"/> Arthritis | <input type="checkbox"/> Autism |
| <input type="checkbox"/> Cancers | <input type="checkbox"/> Chronic stress | <input type="checkbox"/> Chronic pain | <input type="checkbox"/> Dementia/Alzheimer's |
| <input type="checkbox"/> Dental problems (oral health) | <input type="checkbox"/> Diabetes | <input type="checkbox"/> Food allergies/anaphylaxis | <input type="checkbox"/> Heart disease and stroke |
| <input type="checkbox"/> High blood pressure or cholesterol | <input type="checkbox"/> HIV/AIDS | <input type="checkbox"/> Lung disease (asthma, COPD, emphysema) | <input type="checkbox"/> Vaccine preventable diseases such as flu, measles, and pertussis (whooping cough) |
| <input type="checkbox"/> Mental health issues (depression, anxiety, bipolar, etc.) | <input type="checkbox"/> Overweight/obesity | <input type="checkbox"/> Sexually transmitted diseases | <input type="checkbox"/> Suicide |
| <input type="checkbox"/> Tobacco use including vaping | <input type="checkbox"/> Other: _____ | <input type="checkbox"/> | <input type="checkbox"/> |

11. Which issues have the greatest impact on your community's health and wellness? (Check up to 5.)

| | | | |
|---|--|---|---|
| <input type="checkbox"/> Bullying/peer pressure | <input type="checkbox"/> Child abuse/neglect | <input type="checkbox"/> Distracted driving (such as cell phone use, texting while driving) | <input type="checkbox"/> Domestic violence |
| <input type="checkbox"/> Dropping out of school | <input type="checkbox"/> Elder abuse/neglect | <input type="checkbox"/> Gang-related violence | <input type="checkbox"/> Gun-related injuries |

The following information is used for demographic purposes and does NOT identify you; all responses are confidential.

16. What is your ZIP code? _____

17. What is your gender?

| | | | |
|-------------------------------|---------------------------------|--------------------------------------|--------------------------------|
| <input type="checkbox"/> Male | <input type="checkbox"/> Female | <input type="checkbox"/> Transgender | <input type="checkbox"/> Other |
|-------------------------------|---------------------------------|--------------------------------------|--------------------------------|

18. What is your age?

| | | | |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <input type="checkbox"/> 12-17 | <input type="checkbox"/> 18-24 | <input type="checkbox"/> 25-34 | <input type="checkbox"/> 35-44 |
| <input type="checkbox"/> 45-54 | <input type="checkbox"/> 55-64 | <input type="checkbox"/> 65-74 | <input type="checkbox"/> 75+ |

19. Which racial or ethnic group do you identify with? (Check only 1.)

| | | | |
|--|--|--|---|
| <input type="checkbox"/> White | <input type="checkbox"/> Asian | <input type="checkbox"/> American Indian: Tribal Affiliation _____ | <input type="checkbox"/> Hispanic or Latino |
| <input type="checkbox"/> Black of African American | <input type="checkbox"/> Native Hawaiian or Other Pacific Islander | <input type="checkbox"/> Alaskan Native | <input type="checkbox"/> Multi-racial |
| <input type="checkbox"/> Other | | | |

20. Which group(s) do you most identify with? (Check all that apply.)

| | | | |
|---|--|--|--|
| <input type="checkbox"/> Adult with children | <input type="checkbox"/> Adult with no children | <input type="checkbox"/> Caregiver | <input type="checkbox"/> LGBTQI |
| <input type="checkbox"/> Person experiencing homelessness | <input type="checkbox"/> Person with a disability | <input type="checkbox"/> Refugee/Asylum Seeker | <input type="checkbox"/> Single parent |
| <input type="checkbox"/> Veteran | <input type="checkbox"/> Person living with HIV/AIDS | <input type="checkbox"/> Other: _____ | <input type="checkbox"/> None |

21. What range is your household income?

| | | |
|---|--|--|
| <input type="checkbox"/> Less than \$20,000 | <input type="checkbox"/> \$20,000 - \$29,000 | <input type="checkbox"/> \$30,000 - \$49,000 |
| <input type="checkbox"/> 50,000 - \$74,000 | <input type="checkbox"/> \$75,000 - \$99,999 | <input type="checkbox"/> Over \$100,000 |

22. What is the highest level of education you have completed?

| | | | |
|---|---|---|---|
| <input type="checkbox"/> Less than a high school graduate | <input type="checkbox"/> High school diploma or GED | <input type="checkbox"/> Associate's Degree | <input type="checkbox"/> Currently enrolled at vocational school or college |
| <input type="checkbox"/> College degree or higher | <input type="checkbox"/> Other | | |

2021 COVID-19 Impact Community Health Survey

The purpose of this brief survey is to get your opinion about COVID-19's impact on community health and quality of life in Maricopa County since March of 2020. Information collected in this survey will be kept confidential and used only in combination with others participating in the survey. No personal identifying information will be collected. Your feedback will be used to help guide future community health improvement planning and funding efforts. This survey should take about 15 minutes. If you have questions about the survey or need it provided in an alternative language or format, please email Tiffany.Tu@maricopa.gov and we will do our best to accommodate.

The following information is used for demographic purposes and does NOT identify you; all responses are confidential. To learn more about why CHNAs are important, please visit <https://www.cdc.gov/publichealthgateway/cha/plan.html>.

1. **What is the ZIP code that you currently reside in?** _____
2. **What is your gender?**

| | | | | |
|---------------------------------|-------------------------------|--------------------------------------|--|---|
| <input type="checkbox"/> Female | <input type="checkbox"/> Male | <input type="checkbox"/> Transgender | <input type="checkbox"/> Prefer to self-describe | <input type="checkbox"/> Prefer not to answer |
|---------------------------------|-------------------------------|--------------------------------------|--|---|

3. **What is your age range?**

| | | | |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <input type="checkbox"/> 12-17 | <input type="checkbox"/> 18-24 | <input type="checkbox"/> 25-34 | <input type="checkbox"/> 35-44 |
| <input type="checkbox"/> 45-54 | <input type="checkbox"/> 55-64 | <input type="checkbox"/> 65-74 | <input type="checkbox"/> 75+ |

4. **Which racial and/or ethnic group do you identify with? (Check no more than two)**

| | | | |
|--|--|---------------------------------------|---|
| <input type="checkbox"/> African American/Black | <input type="checkbox"/> American Indian/Native American | <input type="checkbox"/> Asian | <input type="checkbox"/> Hispanic/Latinx |
| <input type="checkbox"/> Native Hawaiian or other Pacific Islander | <input type="checkbox"/> Caucasian/White | <input type="checkbox"/> Other: _____ | <input type="checkbox"/> Prefer not to answer |

5. **Which group(s) do you most identify with? (Check all that apply)**

| | | | |
|--|--|---|---|
| <input type="checkbox"/> Adult with children under age 18 or living in the same home | <input type="checkbox"/> Single parent | <input type="checkbox"/> LGBTQI | <input type="checkbox"/> Person experiencing homelessness |
| <input type="checkbox"/> Person living with a disability | <input type="checkbox"/> Immigrant | <input type="checkbox"/> Refugee | <input type="checkbox"/> Veteran |
| <input type="checkbox"/> Person living with HIV/AIDS | <input type="checkbox"/> Other | <input type="checkbox"/> Prefer not to answer | <input type="checkbox"/> None |

6. What range is your household income?

| | | |
|---|--|--|
| <input type="checkbox"/> Less than \$20,000 | <input type="checkbox"/> \$20,000 - \$29,000 | <input type="checkbox"/> \$30,000 - \$49,000 |
| <input type="checkbox"/> 50,000 - \$74,000 | <input type="checkbox"/> \$75,000 - \$99,999 | <input type="checkbox"/> Over \$100,000 |
| <input type="checkbox"/> Prefer not to answer | | |

7. What is the highest level of education you have completed?

| | | | |
|---|---|---|--|
| <input type="checkbox"/> Less than a high school graduate | <input type="checkbox"/> High school diploma or GED | <input type="checkbox"/> Some College or Associate degree (2yr) | <input type="checkbox"/> Graduate of vocational/trade school |
| <input type="checkbox"/> Currently enrolled in college | <input type="checkbox"/> Bachelor's Degree (4yr) | <input type="checkbox"/> Postgraduate Degree | <input type="checkbox"/> Other |
| <input type="checkbox"/> Prefer not to answer | | | |

In this survey, "community is defined as the areas where you work, live, learn and/or play.

8. Since March of 2020 (the start of the COVID-19 pandemic), how would you rate your physical health?

| | | | | |
|-----------|-----------|------|------|------|
| Excellent | Very Good | Good | Fair | Poor |
|-----------|-----------|------|------|------|

9. Would you rate your current physical health as Better, Similar, or Worse compared to your physical health prior to March of 2020?

| | | |
|--------|---------|-------|
| Better | Similar | Worse |
|--------|---------|-------|

10. Since March of 2020 (the start of the COVID-19 pandemic), how would you rate your mental health, including your mood, stress level, and your ability to think?

| | | | | |
|-----------|-----------|------|------|------|
| Excellent | Very Good | Good | Fair | Poor |
|-----------|-----------|------|------|------|

11. Would you rate your current mental health as Better, Similar, or Worse compared to your mental health prior to March 2020?

| | | |
|--------|---------|-------|
| Better | Similar | Worse |
|--------|---------|-------|

12. Since March of 2020 (the start of the COVID-19 pandemic), if you sought services to address your mental health, including your mood, stress level and/or your ability to think, how often have you been able to get the services you need?

| | | | |
|--------|-----------|-------|----------------|
| Always | Sometimes | Never | Not Applicable |
|--------|-----------|-------|----------------|

13. What services would have improved overall mental and physical health of your family in the last year? (Check all that apply)

| | | | |
|---|---|---|--|
| <input type="checkbox"/> Childcare services | <input type="checkbox"/> In-person school | <input type="checkbox"/> Technology and internet service | <input type="checkbox"/> Assistance with finding employment |
| <input type="checkbox"/> Assistance with paying utilities | <input type="checkbox"/> Assistance with paying rent | <input type="checkbox"/> Assistance with finding healthcare | <input type="checkbox"/> Assistance with finding substance use treatment |
| <input type="checkbox"/> Assistance with mental health issues | <input type="checkbox"/> Assistance with finding COVID-19 vaccine | <input type="checkbox"/> Other _____ | |

14. Since March of 2020, have you had enough money to pay for essentials such as:

| | | | | |
|---------------------------|--------|-----------|-------|-----|
| Food | Always | Sometimes | Never | N/A |
| Housing: Rent/Mortgage | Always | Sometimes | Never | N/A |
| Utilities | Always | Sometimes | Never | N/A |
| Car/Transportation | Always | Sometimes | Never | N/A |
| Insurance | Always | Sometimes | Never | N/A |
| Clothing/Hygiene Products | Always | Sometimes | Never | N/A |
| Medication/Treatments | Always | Sometimes | Never | N/A |
| Childcare | Always | Sometimes | Never | N/A |
| Tuition or Student Loans | Always | Sometimes | Never | N/A |

15. Since March of 2020, have you applied for any of the following financial assistance due to the impact of the COVID-19 pandemic to assist with the essential cost of living expenses listed above?

| | | |
|---|-----|----|
| COVID-19 Relief Funding for You/Family | Yes | No |
| COVID-19 Relief Funding for your business | Yes | No |
| Unemployment due to loss of job (laid off) | Yes | No |
| Unemployment due to staying home to care for children, elderly parents, or ill family members | Yes | No |

| | | |
|---|-----|----|
| Unemployment due to COVID-19 illness (self) | Yes | No |
| WIC (Women, Infant, and Children) | Yes | No |
| SNAP Food Stamps | Yes | No |
| Medicaid Insurance | Yes | No |

16. Since March of 2020, how often did you seek financial assistance to help pay for healthcare expenses (e.g. doctor bills, medications, medical treatments, doctor co-pay, etc.)

| | | | |
|--------|-----------|-------|-----|
| Always | Sometimes | Never | N/A |
|--------|-----------|-------|-----|

17. If you received a stimulus check in the fall of 2020 and spring of 2021, what impact did this have on alleviating your essential living expenses and access to healthcare?

| | | | | |
|---------------|-----------------|-------------|-------------------------|-----------------|
| Strong Impact | Moderate Impact | Weak Impact | No Impact/No difference | Did Not Receive |
|---------------|-----------------|-------------|-------------------------|-----------------|

18. Since March of 2020, was your employment impacted due to the COVID 19 pandemic? (Check all that apply)

| | | | |
|--|--|---|---|
| <input type="checkbox"/> No, continued working the same number of hours | <input type="checkbox"/> No, required to continue working onsite | <input type="checkbox"/> Yes, work hours were reduced | <input type="checkbox"/> Yes, required to telework |
| <input type="checkbox"/> Yes, furloughed (temporary job loss, able to return to work once management contacts you) | <input type="checkbox"/> Yes, laid off | <input type="checkbox"/> Yes, quit to care for children due to school closure | <input type="checkbox"/> Yes, quit to care for ill family members |
| <input type="checkbox"/> Yes, quit due to COVID-19 illness (self) | <input type="checkbox"/> Yes, unable to return to work due to COVID-19 illness (long-term effects) | <input type="checkbox"/> Yes, started a new job | <input type="checkbox"/> Other: _____ |

19. Since March of 2020, how do you currently pay for your healthcare including medications, dental, and health treatments? (Check all that apply)

| | | | |
|---|---|---|--|
| <input type="checkbox"/> Health insurance purchased on my own or by family member | <input type="checkbox"/> Health insurance provided through employer | <input type="checkbox"/> Indian Health Services | <input type="checkbox"/> Medicaid/AHCCCS |
| <input type="checkbox"/> Medicare | <input type="checkbox"/> Use free clinics | <input type="checkbox"/> Use my own money (out of pocket) | <input type="checkbox"/> Veterans administration |

| | | | |
|--|--|--|--|
| <input type="checkbox"/> Did not seek healthcare since March of 2020 | <input type="checkbox"/> Other: _____ | | |
|--|--|--|--|

20. Since March of 2020, what have been the primary barriers to seeking or accessing healthcare in your community? (Check all that apply)

| | | | |
|---|--|---|---|
| <input type="checkbox"/> Lack of childcare | <input type="checkbox"/> Difficulty finding the right provider for my care | <input type="checkbox"/> Fear of exposure of COVID-19 in a healthcare setting | <input type="checkbox"/> Unsure if healthcare need is a priority during this time |
| <input type="checkbox"/> Distance to provider | <input type="checkbox"/> Inconvenient office hours | <input type="checkbox"/> No health insurance coverage | <input type="checkbox"/> Not enough health insurance coverage |
| <input type="checkbox"/> Transportation to appointments | <input type="checkbox"/> Understanding of language, culture, or sexual orientation differences | <input type="checkbox"/> I have not experienced any barriers | <input type="checkbox"/> Other: _____ |

21. Since March of 2020, what have been the greatest strengths of your community? (Check all that apply)

| | | | |
|---|--|--|---|
| <input type="checkbox"/> Ability to communicate with city/town leadership and feel that my voice is heard | <input type="checkbox"/> Accepting of diverse residents and cultures | <input type="checkbox"/> Access to schools or school alternatives | <input type="checkbox"/> Access to affordable childcare |
| <input type="checkbox"/> Access to affordable healthy foods | <input type="checkbox"/> Access to COVID-19 testing events | <input type="checkbox"/> Access to cultural & educational events | <input type="checkbox"/> Access to medical care |
| <input type="checkbox"/> Access to affordable housing | <input type="checkbox"/> Access to COVID-19 vaccine events | <input type="checkbox"/> Access to quality online school options | <input type="checkbox"/> Access to mental health services |
| <input type="checkbox"/> Access to community programming such as classes & trainings | <input type="checkbox"/> Access to Flu vaccine events | <input type="checkbox"/> Access to jobs & healthy economy | <input type="checkbox"/> Access to parks and recreation sites |
| <input type="checkbox"/> Access to public libraries and community centers | <input type="checkbox"/> Access to safe walking and biking routes | <input type="checkbox"/> Access to substance abuse treatment services | <input type="checkbox"/> Access to low crime / safe neighborhoods |
| <input type="checkbox"/> Access to public transportation | <input type="checkbox"/> Access to services for seniors | <input type="checkbox"/> Access to support networks such as neighbors, | |

| | | | |
|--|--|---|---------------------------------------|
| | | friends, and family | |
| <input type="checkbox"/> Access to religious or spiritual events | <input type="checkbox"/> Access to social services for residents in need or crisis | <input type="checkbox"/> Access to clean environments and streets | <input type="checkbox"/> Other: _____ |

22. Since March of 2020, in addition to COVID-19, which health conditions have had the greatest impact on your community’s overall health and wellness? (Check all that apply)

| | | | |
|---|---|---|---|
| <input type="checkbox"/> Alcohol/Substance abuse | <input type="checkbox"/> Cancers | <input type="checkbox"/> Dementia/Alzheimer’s | <input type="checkbox"/> Diabetes |
| <input type="checkbox"/> Heart disease and stroke | <input type="checkbox"/> High blood pressure or cholesterol | <input type="checkbox"/> HIV/AIDS | <input type="checkbox"/> Lung disease (asthma, COPD, emphysema) |
| <input type="checkbox"/> Vaccine preventable disease such as flu, measles, and pertussis (whooping cough) | <input type="checkbox"/> Mental health issues (depression, anxiety, bipolar, etc) | <input type="checkbox"/> Overweight/ obesity | <input type="checkbox"/> Sexually transmitted disease |
| <input type="checkbox"/> Tobacco use including vaping | <input type="checkbox"/> Other: _____ | | |

23. Since March of 2020, which of the following issues have had the greatest impact on your community’s health and wellness? (Check all that apply)

| | | | |
|--|---|--|---|
| <input type="checkbox"/> Child abuse/elder abuse & neglect | <input type="checkbox"/> Distracted driving (such as cell phone use, texting while driving) | <input type="checkbox"/> Domestic violence / sexual assault | <input type="checkbox"/> Gang-related violence |
| <input type="checkbox"/> Gun-related injuries | <input type="checkbox"/> Limited/lack of access to COVID19 testing | <input type="checkbox"/> Lack of affordable healthy food options | <input type="checkbox"/> Lack of people immunized to prevent disease |
| <input type="checkbox"/> Homelessness | <input type="checkbox"/> Limited access to healthcare | <input type="checkbox"/> Lack of affordable housing | <input type="checkbox"/> Lack of public transportation |
| <input type="checkbox"/> Drug/substance abuse (illegal & prescribed) | <input type="checkbox"/> Limited access to mental/behavioral health services | <input type="checkbox"/> Lack of jobs | <input type="checkbox"/> Lack of quality and affordable childcare |
| <input type="checkbox"/> Lack of COVID-19 vaccine access | <input type="checkbox"/> Limited access to educational and supportive | <input type="checkbox"/> Lack of alternative | <input type="checkbox"/> Lack of safe spaces to exercise and be physically active |

| | | | |
|--|--|---|----------------------------------|
| | programing for children and adolescents | educational opportunities | |
| <input type="checkbox"/> Lack of support networks such as neighbors, friends, and family | <input type="checkbox"/> Motor vehicle & motorcycle crash injuries | <input type="checkbox"/> Racism/ discrimination | <input type="checkbox"/> Suicide |
| <input type="checkbox"/> Teen Pregnancy | <input type="checkbox"/> Other: _____ | | |

24. Overall, how easy was it to navigate this electronic survey?

| | | | | |
|---|--------------------------------------|--|---|--|
| <input type="checkbox"/> Very easy to use | <input type="checkbox"/> Easy to use | <input type="checkbox"/> Neither easy nor difficult to use | <input type="checkbox"/> Difficult to use | <input type="checkbox"/> Very difficult to use |
|---|--------------------------------------|--|---|--|

25. Based on the given survey questions above, the information provided was easy to understand.

| | | | | |
|---|--------------------------------|----------------------------------|-----------------------------------|--|
| <input type="checkbox"/> Strongly agree | <input type="checkbox"/> Agree | <input type="checkbox"/> Neutral | <input type="checkbox"/> Disagree | <input type="checkbox"/> Strongly disagree |
|---|--------------------------------|----------------------------------|-----------------------------------|--|

26. What else would you like to share with us regarding your experience with COVID-19 that we didn't ask?

27. Want to tell us more? We want to share community members' stories. Let us know you're interested by indicating your type of experience along with sharing your email address/phone so we can contact you.

- I experienced COVID-19. _____
- A loved one experienced COVID-19. _____
- My work was impacted by COVID-19. _____
- Other: _____

Thank you for completing MCDPH's COVID-19 Impact Community Health Assessment Survey.

Appendix C – Survey Demographics

2019 & 2021 Community Survey Demographics

| 2019 | |
|---------------------------------|--------|
| Total # of participants | 11,893 |
| Race/Ethnicity | |
| African American/Black | 3.0% |
| American Indian/Native American | 2.0% |
| Asian | 25.0% |
| Caucasian/White | 61.0% |
| Hispanic/Latinx | 4.0% |
| Other | 6.0% |
| Age | |
| 12-24 | 8.0% |
| 25-44 | 32.0% |
| 45-64 | 39.0% |
| 65+ | 21.0% |
| Gender | |
| Female | 73.0% |
| Male | 25.0% |
| Other | 1.0% |

| 2021 | |
|--|--------|
| Total # of participants | 14,380 |
| Race/Ethnicity | |
| African American/Black | 4.1% |
| American Indian/Native American | 1.4% |
| Asian | 4.5% |
| Caucasian/White | 64.5% |
| Hispanic/Latinx | 18.3% |
| Native Hawaiian/Other Pacific Islander | 1.2% |
| Two or more races | 1.2% |
| Unknown/Not given | 4.9% |
| Age | |
| 12-24 | 6.4% |
| 25-44 | 30.9% |
| 45-64 | 43.0% |
| 65+ | 20.0% |
| Gender | |
| Female | 68.9% |
| Male | 29.1% |
| Additional Genders | 0.6% |
| Unknown/Not Given | 1.4% |

Appendix D – Maricopa County Zip Codes

Maricopa County Zip Codes

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 85003 | 85085 | 85209 | 85305 | 85357 | 85552 | 85633 | 85745 | 86017 | 86325 | 86505 |
| 85004 | 85086 | 85210 | 85306 | 85360 | 85553 | 85634 | 85746 | 86018 | 86326 | 86506 |
| 85006 | 85087 | 85212 | 85307 | 85361 | 85554 | 85635 | 85747 | 86020 | 86327 | 86507 |
| 85007 | 85118 | 85213 | 85308 | 85362 | 85545 | 85637 | 85748 | 86021 | 86329 | 86508 |
| 85008 | 85119 | 85215 | 85309 | 85363 | 85546 | 85638 | 85749 | 86022 | 86331 | 86510 |
| 85009 | 85120 | 85224 | 85310 | 85364 | 85550 | 85640 | 85750 | 86023 | 86332 | 86511 |
| 85012 | 85121 | 85225 | 85320 | 85365 | 85551 | 85641 | 85755 | 86024 | 86333 | 86512 |
| 85013 | 85122 | 85226 | 85321 | 85367 | 85552 | 85643 | 85756 | 86025 | 86334 | 86514 |
| 85014 | 85123 | 85233 | 85322 | 85371 | 85553 | 85645 | 85757 | 86028 | 86335 | 86515 |
| 85015 | 85128 | 85234 | 85323 | 85373 | 85554 | 85646 | 85901 | 86029 | 86336 | 86520 |
| 85016 | 85050 | 85248 | 85324 | 85374 | 85601 | 85648 | 85911 | 86030 | 86337 | 86535 |
| 85017 | 85051 | 85249 | 85325 | 85375 | 85602 | 85650 | 85912 | 86031 | 86338 | 86538 |
| 85018 | 85053 | 85250 | 85326 | 85377 | 85602 | 85653 | 85920 | 86032 | 86343 | 86540 |
| 85019 | 85054 | 85251 | 85328 | 85379 | 85603 | 85654 | 85922 | 86033 | 86351 | 86544 |
| 85020 | 85083 | 85253 | 85331 | 85381 | 85605 | 85658 | 85923 | 86034 | 86401 | 86545 |
| 85021 | 85085 | 85254 | 85332 | 85382 | 85606 | 85701 | 85924 | 86035 | 86403 | 86547 |
| 85022 | 85086 | 85255 | 85333 | 85383 | 85607 | 85704 | 85925 | 86036 | 86404 | 86556 |
| 85023 | 85087 | 85256 | 85334 | 85387 | 85608 | 85705 | 85926 | 86038 | 86406 | 85711 |
| 85024 | 85118 | 85257 | 85335 | 85388 | 85609 | 85706 | 85927 | 86039 | 86409 | |
| 85027 | 85119 | 85258 | 85336 | 85390 | 85610 | 85707 | 85928 | 86040 | 86411 | |
| 85028 | 85120 | 85259 | 85337 | 85392 | 85611 | 85708 | 85929 | 86042 | 86413 | |
| 85029 | 85121 | 85260 | 85338 | 85395 | 85613 | 85710 | 85930 | 86043 | 86426 | |
| 85031 | 85122 | 85262 | 85339 | 85396 | 85614 | 85712 | 85931 | 86044 | 86429 | |
| 85032 | 85123 | 85263 | 85340 | 85501 | 85615 | 85713 | 85932 | 86045 | 86431 | |
| 85033 | 85128 | 85264 | 85341 | 85530 | 85616 | 85714 | 85933 | 86046 | 86432 | |
| 85034 | 85131 | 85266 | 85342 | 85531 | 85617 | 85715 | 85934 | 86047 | 86433 | |
| 85035 | 85132 | 85268 | 85343 | 85533 | 85618 | 85716 | 85935 | 86052 | 86434 | |
| 85037 | 85135 | 85281 | 85344 | 85534 | 85619 | 85718 | 85936 | 86053 | 86435 | |
| 85040 | 85137 | 85282 | 85345 | 85535 | 85620 | 85719 | 85937 | 86054 | 86436 | |
| 85041 | 85138 | 85283 | 85346 | 85536 | 85621 | 85723 | 85938 | 86301 | 86437 | |
| 85042 | 85139 | 85284 | 85347 | 85539 | 85622 | 85724 | 85939 | 86303 | 86438 | |
| 85043 | 85140 | 85286 | 85348 | 85540 | 85623 | 85726 | 85940 | 86305 | 86440 | |
| 85044 | 85141 | 85295 | 85349 | 85541 | 85624 | 85730 | 85941 | 86313 | 86441 | |
| 85045 | 85142 | 85296 | 85350 | 85542 | 85625 | 85735 | 85942 | 86314 | 86442 | |
| 85048 | 85143 | 85297 | 85351 | 85543 | 85626 | 85736 | 86001 | 86315 | 86443 | |
| 85050 | 85145 | 85298 | 85352 | 85544 | 85627 | 85737 | 86003 | 86320 | 86444 | |
| 85051 | 85147 | 85301 | 85353 | 85545 | 85629 | 85739 | 86004 | 86321 | 86445 | |
| 85053 | 85172 | 85302 | 85354 | 85546 | 85630 | 85741 | 86011 | 86322 | 86502 | |
| 85054 | 85173 | 85303 | 85355 | 85550 | 85631 | 85742 | 86015 | 86323 | 86503 | |
| 85083 | 85208 | 85304 | 85356 | 85551 | 85632 | 85743 | 86016 | 86324 | 86504 | |

Appendix E – Top Health Indicators Disparities in Maricopa County

Top Health Indicators Disparities in Maricopa County

rates per 100,000 population

| Indicator | Gender Disparity | Age Disparity | Racial Disparity |
|---|---|---|---|
|  Cardiovascular Disease (CVD) | Males had a higher IP rate (1435.7) and death rate (226.7) while females had a higher ED rate (1092.3). | Patients aged 75+ had the highest IP (7601.7), ED (4560.3) and death rate (2177.0). | Black/African American patients had the highest IP rate (1822.7) and ED rate (2205.1) while Caucasian/White patients had the highest death rate (316.8). |
|  Mental and Behavioral Health | Males had a higher IP rate (1338.1), ED rate (1193.1), and death rate (39.8) than females. | Patients aged 15-19 had the highest IP rate (2022.4), patients aged 25-34 had the highest ED rate (1864.4), patients aged 75+ had the highest death rate (3.6). | Black/African American patients had the highest IP rate (2242.5), American Indian patients had the highest ED rate (3055.8) and death rate (56.4). |
|  Falls | Females had a higher IP rate (566.0) and ED rate (2516.5) and death rate (21.3) than males. | Patients aged 75+ had the highest IP rate (4013.6) and ED rate (7627.0), and death rate (247.7). | White/Caucasian patients had the highest IP rate (758.2) and death rate (32.3) while Black/African American patients had the highest ED rate (2944.7). |
|  Arthritis | Females had a higher IP rate (352.0) and death rate (1.2), while males had a higher ED rate (108.6). | Patients aged 65-74 years old had the highest IP rate (1442.5) and death rate (0.1) while patients aged 75+ had the highest ED rate (281.2). | White/Caucasian patients had the highest IP rate (492.7), Black/African American patients had the highest ED rate (332.2), and Hispanic patients had the highest death rate (1.84). |
|  Stroke | Males had a higher IP rate (282.0), and ED rate (55.7) while females had a higher death rate (40.8). | Patients aged 75+ had the highest IP rate (1684.1), ED rate (298.6), and death rate (388.8). | White/Caucasian patients had the highest IP rate (362.6) and death rate (52.2) while Black/African American patients had the highest ED rate (78.4). |
|  Diabetes | Males had a higher IP rate (192.3), ED rate (257.8), and death rate (32.9). | Patients aged 75+ had the highest IP rate (302.9) and death rate (167.1) while patients aged 55-64 had the highest ED rate (453.2). | Black/African American patients had the highest IP rate (328.0), ED rate (652.8), while American Indians had the highest death rate (58.6). |
|  Motor vehicle | Males had a higher IP rate (136.0) and death rate (16.3) while females had a higher ED rate (957.3). | Patients aged 75+ had the highest IP rate (155.7) and death rate (21.7) while patients aged 20-24 had the highest ED rate (1749.1). | American Indian patients had the highest IP rate (172.0) and death rate (17.1) while Black/African American patients had the highest ED rate (2354.2). |
|  COPD | Females had a higher IP rate (109.4) and ED rate (170.1), while males had a higher death rate (73.3). | Patients aged 75+ had the highest IP rate (469.3), ED rate (569.5), and death rate (695.6). | White/Caucasian patients had the highest IP rate (144.0) and death rate (114.6) while Black/African American patients had the highest ED rate (238.0). |

| | | | |
|---|--|--|--|
|  Asthma | <p>Females had a higher IP rate (49.4), ED rate (325.4), and death rate (1.2) than males.</p> | <p>Patients aged 5-9 had the highest IP rate (97.9) and ED rate (737.7) while patients aged 75+ had the highest death rate (3.6).</p> | <p>Black/African American patients had the highest IP rate (140.7), ED rate (1420.9), and death rate (3.7).</p> |
|  Lung Cancer | <p>Females had a higher IP rate (33.4) while males had a higher ED rate (7.6) and death rate (30.9).</p> | <p>Patients aged 75+ had the highest IP rate (158.9), ED rate (36.0), and death rate (223.4).</p> | <p>White/Caucasian patients had the highest IP rate (45.1) and death rate (46.7) while Black/African American patients had the highest ED rate (13.4).</p> |
|  Breast Cancer | | <p>Patients aged 65-74 had the highest IP rate (24.7), patients aged 55-64 had the highest ED rate (22.6), patients aged 75+ had the highest death rate (117.1).</p> | <p>White/Caucasian patients had the highest IP rate (11.8), Black/African American patients had the highest ED rate (28.1) and death rate (35.1).</p> |
|  Alzheimer's | <p>Males had a higher IP rate (7.0) while females had a higher ED rate (6.5) and death rate (55.6).</p> | <p>Patients aged 75+ had the highest IP rate (78.8), ED rate (71.6), and death rate (599.0).</p> | <p>White/Caucasian patients had the highest IP rate (11.0), ED rate (8.2), and death rate (67.2).</p> |

Source: Maricopa County's 2019 Hospital Discharge and Death Database

Appendix F – Participating Organizations in the Community Benefit and Health Equity Committee (CBHEC) & Health Equity Alliance (HEA) Meetings

Organizations that participated in the CBHEC Meetings

- Arizona Department of Housing
- Arizona Partnership for Healthy Communities
- Catholic Charities
- Chicanos Por La Causa
- CommonSpirit Health
- Creighton University School of Medicine
- Foundation for Senior Living
- Gonzalez Consulting, LLC
- Maricopa County Department of Public Health
- Mercy Care
- Mountain Park Health Center
- Oasis Hospital
- PV Health Solutions
- St. Joseph's Foundation
- St. Joseph's Hospital Community Board
- St. Joseph's Hospital and Medical Center

Organizations that participated in the HEA Meetings

- Ability360
- Adelante Healthcare
- Arizona Department of Economic Security
- Arizona Healthy Communities
- Arizona Housing
- Arizona State University
- Bloom365
- Blue Cross Blue Shield of Arizona
- Brain Injury Alliance Arizona
- Cancer Support Community Arizona
- Catholic Charities Arizona
- Center for the Future of Arizona
- Circle the City
- City of Phoenix
- CommonSpirit Health
- Community Medical Services
- Copa Health
- Dignity Health

- Epilepsy Foundation
- Equality Health
- Family Involvement Center
- Flinn Foundation
- Foundation for Senior Living
- Geller Health
- Hennepin Healthcare
- HonorHealth
- Keough Health
- Kinseed
- Lumedic
- Maggie's Place
- Maricopa County Department of Public Health
- Mercy Care Arizona
- Mission of Mercy
- Moses Behavioral Health Care
- Mountain Park Health Center
- Native American Connections
- Phoenix Indian Center
- Policy Link
- Raising Special Kids
- Social Security Administration
- Sonoran Prevention Works
- Southwest Human Development
- Special Olympics Arizona
- St. Louis-MO Missouri Department of Health
- St. Vincent de Paul
- Streetlight USA
- Tanner Community Development Corporation
- The Be Kind People Project
- 35Projects
- United Healthcare
- Unlimited Potential Arizona
- Valle del Sol
- Washington State Health Care Authority
- Women's Health Innovations of Arizona
- Zion Medical Group

Appendix G – Resources Potentially Available

| Health Need | Resources Potentially Available |
|--|---|
| <p>Access to Care</p> <ul style="list-style-type: none"> • Financial Security • Maternal and Child Health | <ul style="list-style-type: none"> • Adelante Healthcare - Access to healthcare • AHCCCS - Health insurance coverage • Chicanos Por La Causa / Keogh Health Connection - Enrollment specialists, social services, economic development • Community Health Workers (CHWs) Navigators - Various organizations • Foundation for Senior Living - Hospital discharge transition • Hushabye Nursery - Access to care • Mission of Mercy - Mobile clinic • Mountain Park Health Center - Access to healthcare • Mercy Care - Health insurance coverage • Native American Connection - Medical and health services, oral health • Phoenix Indian Center - Job preparedness, workforce development. • St. Vincent de Paul - Rent and utility assistance, medical and dental clinic. • Tempe Community Action Agency - Utility and rental assistance. • Valley of the Sun United Way - Workforce Development and education • Wesley Community & Health Centers - Preventative screening, primary care, prenatal care, lab testing, vaccination, insurance eligibility • Women’s Health Innovations - Maternal child health services |
| <p>Affordable Housing / Homelessness</p> | <ul style="list-style-type: none"> • Andre House - Transitional housing, showers, laundry, clothing, blankets • A New Leaf - Housing and shelter • Central Arizona Shelter Services (CASS) - Homeless shelter • Chicanos Por La Causa - Housing • Circle the City - Respite Care, homelessness • Elaine - Transportation for homeless and underserved • East Valley Men’s Shelter - Housing for men facing homelessness • House of Refuge - Transitional housing for families • Human Services Campus - Housing, meals, shelter • Maggie’s Place - Housing • Native American Connection - Housing • Peoria Unified School District - Homelessness services • Phoenix Indian Center - Housing assistance • Phoenix Rescue Mission - Homelessness • Salvation Army - Homelessness • Save the Family - Homelessness • St. Vincent de Paul - Homelessness prevention |

- Tempe Community Action Agency - I-Help program, housing and shelter support.
- The Faithful City - Homelessness
- UMOM - Emergency shelter, housing program
- Valley of the Sun United Way - Housing and homelessness

Food Insecurity

- Andre House - Nightly dinner
- Creighton Community Foundation - Food boxes, community gardens, food and nutrition projects
- Diana Gregory Outreach Services Foundation - Mobile produce market
- Fighter Country Foundation - Healthy food box initiative
- Matthew’s Crossing - Food bank
- Phoenix Rescue Mission - Food bank
- St. Mary’s Food Bank - Food boxes
- St. Vincent de Paul - Dining rooms, food boxes, food pantry
- Tempe Community Action Agency - Food pantry, congregate meals, food boxes
- Wesley Center - Emergency food assistance, community kitchen, community gardening

Safety & Violence

- **Unintentional Injuries**

- A New Leaf - Domestic violence
- Bloom365 - Dating violence
- Control Alt Delete - Domestic violence
- International Rescue Committee - Human trafficking
- Jewish Family & Children’s Service - Domestic violence
- Phoenix Dream Center - Human trafficking
- Streetlight USA - Human trafficking
- The Faithful City - Domestic Violence, trafficking

Mental Health

- Community 43 - Behavioral health outpatient clinic
- Hope Network - Behavioral and mental health
- Human Services Campus - Mental health
- MIKID (Mentally Ill Kids in Distress) - Behavioral health
- Native American Connection - Behavioral health
- Peoria Unified School District partnership with Southwest Behavioral Health Services - Behavioral health
- Phoenix Indian Center - Mental health services

| | |
|---|---|
| <p>Chronic Health Conditions:</p> <ul style="list-style-type: none"> • Obesity • Diabetes • Cardiovascular Disease | <ul style="list-style-type: none"> • American Diabetes Association - Diabetes education and support • Arizona Diabetes Foundation - Education programs • Healthier Living Program - Chronic disease education program, cooking class • Valley of the Sun YMCA - Viva! Program, Reduce type 2 diabetes in children • Wesley Community & Health Centers - Acute and chronic disease management |
| <p>Addiction / Substance Abuse</p> | <ul style="list-style-type: none"> • Hushabye Nursery - Substance exposed babies • Jewish Family & Children’s Service - Substance abuse counseling • Phoenix Indian Center - Substance abuse • Tempe Community Action Agency - Substance abuse treatment |
| <p>Cancer</p> | <ul style="list-style-type: none"> • Cancer Support Community of Arizona - Cancer resource navigator, access to care |

Appendix H – Data Indicator Matrix

| Resource Responsibility | Source | HDD | BRFSS | ACS; Census | YRBS | Death | Birth | ADHS | AYS | PolicyMap | H-CUP | Level | Maricopa County | Regions | Zipcode | National | State |
|---|---------------|-----|-------|-------------|------|-------|-------|------|-----|-----------|-------|--------------|-----------------|---------|---------|----------|-------|
| HDD - Hospital Discharge Data | | | | | | | | | | | | | | | | | |
| BRFSS - Behavioral Risk Factor Surveillance Survey | | | | | | | | | | | | | | | | | |
| ACS - American Community Survey (Census) | | | | | | | | | | | | | | | | | |
| YRBS - Youth Risk Behavior Survey | | | | | | | | | | | | | | | | | |
| AYS - Arizona Youth Survey | | | | | | | | | | | | | | | | | |
| H-CUP - The Healthcare Coast & Utilization Project | | | | | | | | | | | | | | | | | |
| IP - Inpatient hospitalization | | | | | | | | | | | | | | | | | |
| ED - Emergency Department Visits | | | | | | | | | | | | | | | | | |
| Population Demographics | | | | | | | | | | | | | | | | | |
| Gender | | | | | | | | | | | | | | | | | |
| Age Groups | | | | | | | | | | | | | | | | | |
| Race/Ethnicity | | | | | | | | | | | | | | | | | |
| Education | | | | | | | | | | | | | | | | | |
| Income | | | | | | | | | | | | | | | | | |
| Employment Status | | | | | | | | | | | | | | | | | |
| Access to Health Care | | | | | | | | | | | | | | | | | |
| Health Insurance Coverage | | | | | | | | | | | | | | | | | |
| Poverty | | | | | | | | | | | | | | | | | |
| Health Care Coverage (18-64) | | | | | | | | | | | | | | | | | |
| Usual Source of Care | | | | | | | | | | | | | | | | | |
| Routine Checkup (last year) | | | | | | | | | | | | | | | | | |
| Primary Payer Type for ED/IP | | | | | | | | | | | | | | | | | |
| Birth Related | | | | | | | | | | | | | | | | | |
| IMR | | | | | | | | | | | | | | | | | |
| Low Birth Weight | | | | | | | | | | | | | | | | | |
| PreTerm Births | | | | | | | | | | | | | | | | | |
| Teen Birth | | | | | | | | | | | | | | | | | |
| Prenatal Care Began | | | | | | | | | | | | | | | | | |
| Top 5 leading cause of death | | | | | | | | | | | | | | | | | |
| Youth top 5 leading cause of death | | | | | | | | | | | | | | | | | |
| Top 5 leading emergency department and hospitalization reasons | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Cancer Incidence & Prevention | | | | | | | | | | | | | | | | | |
| Cancer (by type) Incidence | | | | | | | | | | | | | | | | | |
| Cancer (by type) Screening | | | | | | | | | | | | | | | | | |
| Cancer (by type) Deaths | | | | | | | | | | | | | | | | | |
| Chronic Disease | | | | | | | | | | | | | | | | | |
| Stroke | | | | | | | | | | | | | | | | | |
| Stroke Deaths | | | | | | | | | | | | | | | | | |
| <i>% Been told they have high blood pressure</i> | | | | | | | | | | | | | | | | | |
| Cardiovascular Disease | | | | | | | | | | | | | | | | | |
| Cardiovascular Disease Deaths | | | | | | | | | | | | | | | | | |
| <i>% Told they have high cholesterol</i> | | | | | | | | | | | | | | | | | |
| Diabetes | | | | | | | | | | | | | | | | | |
| Diabetes Deaths | | | | | | | | | | | | | | | | | |
| <i>Been told they have diabetes</i> | | | | | | | | | | | | | | | | | |
| Alzheimer's ED/IP | | | | | | | | | | | | | | | | | |
| Alzheimer's Deaths | | | | | | | | | | | | | | | | | |
| <i>% told they have Confusion/Memory Loss</i> | | | | | | | | | | | | | | | | | |
| COPD ED/IP | | | | | | | | | | | | | | | | | |
| COPD Deaths | | | | | | | | | | | | | | | | | |
| <i>Been told they have asthma</i> | | | | | | | | | | | | | | | | | |
| Asthma ED/IP | | | | | | | | | | | | | | | | | |
| Asthma Deaths | | | | | | | | | | | | | | | | | |
| <i>Been told they have asthma</i> | | | | | | | | | | | | | | | | | |

| Resource Responsibility | Source | HDD | BRFSS | ACS; Census | YRBS | Death | Birth | ADHS | AYS | PolicyMap | H-CUP | Level | Maricopa County | Regions | Zipcode | National | State | |
|---|---------------|-----|-------|-------------|------|-------|-------|------|-----|-----------|-------|--------------|-----------------|---------|---------|----------|-------|--|
| HDD - Hospital Discharge Data | | | | | | | | | | | | | | | | | | |
| BRFSS - Behavioral Risk Factor Surveillance Survey | | | | | | | | | | | | | | | | | | |
| ACS - American Community Survey (Census) | | | | | | | | | | | | | | | | | | |
| YRBS - Youth Risk Behavior Survey | | | | | | | | | | | | | | | | | | |
| AYS - Arizona Youth Survey | | | | | | | | | | | | | | | | | | |
| H-CUP - The Healthcare Coast & Utilization Project | | | | | | | | | | | | | | | | | | |
| IP - Inpatient hospitalization | | | | | | | | | | | | | | | | | | |
| ED - Emergency Department Visits | | | | | | | | | | | | | | | | | | |
| Mental/Behavioral Illness | | | | | | | | | | | | | | | | | | |
| Mood and Depressive Disorders | | | | | | | | | | | | | | | | | | |
| Schizophrenic Disorders | | | | | | | | | | | | | | | | | | |
| Drug-Induced Mental and Behavioral Disorders | | | | | | | | | | | | | | | | | | |
| All Mental/Behavioral disorders | | | | | | | | | | | | | | | | | | |
| Behavioral Health Risk Factors | | | | | | | | | | | | | | | | | | |
| Alcohol Related ED/IP | | | | | | | | | | | | | | | | | | |
| Alcohol Related Deaths | | | | | | | | | | | | | | | | | | |
| Intentional Self-Harm/Suicide ED/IP | | | | | | | | | | | | | | | | | | |
| Intentional Self-Harm/Suicide Death | | | | | | | | | | | | | | | | | | |
| Opioids - Unintentional overdose ED/IP | | | | | | | | | | | | | | | | | | |
| Opioids - Unintentional overdose Deaths | | | | | | | | | | | | | | | | | | |
| Alcohol/Drug use | | | | | | | | | | | | | | | | | | |
| Youth Alcohol/drug use | | | | | | | | | | | | | | | | | | |
| Smoking | | | | | | | | | | | | | | | | | | |
| Youth Smoking | | | | | | | | | | | | | | | | | | |
| Nutrition/Diet | | | | | | | | | | | | | | | | | | |
| Youth Nutrition/Diet | | | | | | | | | | | | | | | | | | |
| Physical Activity | | | | | | | | | | | | | | | | | | |
| Youth Physical Activity | | | | | | | | | | | | | | | | | | |
| Obesity | | | | | | | | | | | | | | | | | | |
| Youth Obesity | | | | | | | | | | | | | | | | | | |
| Injury | | | | | | | | | | | | | | | | | | |
| Motor Vehicle Crash related ED/IP | | | | | | | | | | | | | | | | | | |
| Motor Vehicle Crash related Deaths | | | | | | | | | | | | | | | | | | |
| Fall Related ED/IP | | | | | | | | | | | | | | | | | | |
| Fall Related Deaths | | | | | | | | | | | | | | | | | | |
| Violence-related ED/IP | | | | | | | | | | | | | | | | | | |
| Violence-related Deaths | | | | | | | | | | | | | | | | | | |
| Social Determinants of Health | | | | | | | | | | | | | | | | | | |
| Transportation; no vehicle households | | | | | | | | | | | | | | | | | | |
| Access to Food; Low Income Low Access | | | | | | | | | | | | | | | | | | |
| Housing; cost burdened | | | | | | | | | | | | | | | | | | |

Appendix I - References

- ⁱ U.S Census Bureau (2015-2019). ACS. Retrieved from <https://data.census.gov/cedsci/table?q=demographic&g=0500000US04013&tid=ACSDP5Y2019.DP05>
- ⁱⁱ U.S Census Bureau (2015-2019). ACS. Retrieved from <https://data.census.gov/cedsci/table?q=education&g=0500000US04013&tid=ACSST5Y2019.S1501>
- ⁱⁱⁱ U.S Census Bureau (2015-2019). ACS. Retrieved from <https://data.census.gov/cedsci/table?q=poverty&g=0500000US04013&tid=ACSST5Y2019.S1701>
- ^{iv} U.S Census Bureau (2015-2019). ACS. Retrieved from <https://data.census.gov/cedsci/table?q=S2701%3A%20SELECTED%20CHARACTERISTICS%20OF%20HEALTH%20INSURANCE%20COVERAGE%20IN%20THE%20UNITED%20STATES&g=0500000US04013&tid=ACSST5Y2019.S2701>
- ^v U.S Census Bureau (2015-2019). ACS. Retrieved from <https://data.census.gov/cedsci/table?q=demographics&g=0400000US04&tid=ACSDP5Y2019.DP05>
- ^{vi} Dignity Health (2021). St. Joseph's Hospital and Medical Center St. Joseph's Westgate Medical Center Community Benefit 2021 Report and 2022 Plan. Retrieved from <https://www.dignityhealth.org/content/dam/dignity-health/documents/cb-reports-2021/St-Josephs-Hospitals-Arizona-CBreport2021-Final.pdf>
- ^{vii} Centers for Disease Control and Prevention (2021). Mental Health. Retrieved from <https://www.cdc.gov/mentalhealth/index.htm>
- ^{viii} Centers for Disease Control and Prevention (2021). Adult Obesity Causes & Consequences. Retrieved from <https://www.cdc.gov/obesity/adult/causes.html>
- ^{ix} World Health Organization. Diabetes. Retrieved from https://www.who.int/health-topics/diabetes#tab=tab_1
- ^x World Health Organization. Cardiovascular Diseases. Retrieved from https://www.who.int/health-topics/cardiovascular-diseases#tab=tab_1
- ^{xi} World Health Organization. Cancer. Retrieved from https://www.who.int/health-topics/cancer#tab=tab_1
- ^{xii} County Health Rankings. Access to Care. Retrieved from <https://www.countyhealthrankings.org/explore-health-rankings/measures-data-sources/county-health-rankings-model/health-factors/clinical-care/access-to-care>
- ^{xiii} World Health Organization. Maternal Health. https://www.who.int/health-topics/maternal-health#tab=tab_1
- ^{xiv} Jackson, F.M., Rashied-Henry, K., Braveman, P. *et al.* A Prematurity Collaborative Birth Equity Consensus Statement for Mothers and Babies. *Matern Child Health J* **24**, 1231–1237 (2020).
- ^{xv} Feeding America. What is Food Insecurity. Retrieved from <https://www.feedingamerica.org/hunger-in-america/food-insecurity>
- ^{xvi} Centers for Disease Control and Prevention. (2014-2018). United States Cancer Statistics: Data Visualizations. Retrieved from <https://gis.cdc.gov/Cancer/USCS/#/StateCounty/>.
- ^{xvii} U.S Census Bureau (2015-2019). ACS Demographics and Housing Estimates Arizona. Retrieved from <https://data.census.gov/cedsci/table?q=demographic&g=0400000US04&tid=ACSDP5Y2019.DP05>
- ^{xviii} U.S Census Bureau (2015-2019). Median Income in the Past 12 Months. Retrieved from <https://data.census.gov/cedsci/table?q=median%20household%20income&g=0400000US04&tid=ACSST5Y2019.S1903>.
- ^{xix} U.S Census Bureau (2015-2019). Poverty Status in the Past 12 Months. Retrieved from <https://data.census.gov/cedsci/table?q=poverty&g=0400000US04&tid=ACSST5Y2019.S1701>.
- ^{xx} U.S Census Bureau (2015-2019). Educational Attainment. Retrieved from <https://data.census.gov/cedsci/table?q=Educational%20Attainment&g=0400000US04&tid=ACSST5Y2019.S1501>
- ^{xxi} Arizona Department of Health Services (2020). Arizona Medically Underserved Areas Biennial Report. Retrieved from <https://www.azdhs.gov/documents/prevention/health-systems-development/data-reports-maps/reports/azmua-biennial-report.pdf>
- ^{xxii} U.S Census Bureau (2015-2019). ACS. Retrieved from <https://data.census.gov/cedsci/table?q=demographic&g=0500000US04013&tid=ACSDP5Y2019.DP05>
- ^{xxiii} Kindig, D., & Stoddart G. (2003). What is population health? *American Journal of Public Health*. 93, 380-383.

-
- ^{xxiv} Evans, R. G., & Stoddart, G. L. (1990). Producing health, consuming health care. *Social Science and Medicine*, 31, 1347-1363.
- ^{xxv} Centers for Disease Control and Prevention (2001). Age Adjustment Using the 2000 Projected U.S. Population. Retrieved from <https://www.cdc.gov/nchs/data/statnt/statnt20.pdf>
- ^{xxvi} Boothe, Sinha, Bohm, & Yoon (2013). Community health assessment for population health improvement; resource of most frequently recommended health outcomes and determinants. Centers for Disease Control and Prevention (U.S.), Office of Surveillance, Epidemiology, and Laboratory Services.
- ^{xxvii} Healthy People 2030. Social Determinants of Health. Retrieved from <https://health.gov/healthypeople/objectives-and-data/social-determinants-health>
- ^{xxviii} National Equity Atlas (2019). Racial Equity Index. Retrieved from https://nationalequityatlas.org/research/racial_equity_index/index#/?geoSectionName=State
- ^{xxix} Hospital Discharge Data, obtained by Arizona Department of Health Services, cleaned, and analyzed by MCDPH
- ^{xxx} Deaths to Maricopa County Residents, obtained by Arizona Department Health Services, cleaned and analyzed by Maricopa County Department of Public Health.
- ^{xxxi} Robert Wood Johnson Foundation. What is health equity? Retrieved from <https://www.rwjf.org/en/library/research/2017/05/what-is-health-equity-.html>
- ^{xxxii} Institute for Healthcare Improvement. Health Equity. Retrieved from <http://www.ihl.org/Topics/Health-Equity/Pages/default.aspx>
- ^{xxxiii} Centers for Disease Control and Prevention. Racism and Health. Retrieved from <https://www.cdc.gov/healthequity/racism-disparities/index.html>
- ^{xxxiv} Arizona Department of Health Services (2021). Arizona Health Improvement Plan Summary Document 2021-2025. Retrieved from <https://www.azdhs.gov/documents/operations/managing-excellence/azhip-2021-2025.pdf>
- ^{xxxv} World Health Organization. Mental Health & COVID-19. Retrieved from <https://www.who.int/teams/mental-health-and-substance-use/mental-health-and-covid-19>
- ^{xxxvi} Centers for Disease Control and Prevention (2021). Adult Obesity Causes & Consequences. Retrieved from <https://www.cdc.gov/obesity/adult/causes.html>
- ^{xxxvii} Centers for Disease Control and Prevention. BRFSS Prevalence & Trends Data (2019). Retrieved from <https://www.cdc.gov/brfss/brfssprevalence/index.html>
- ^{xxxviii} Behavioral Risk Factor Surveillance System (BRFSS) 2019, obtained from Arizona Department of Health Services, analyzed by MCDPH.
- ^{xxxix} US National Library of Medicine National Institutes of Health (2020). The mutual effects of COVID-19 and Obesity. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7202807/>
- ^{xl} Healthy People 2020 (2021). Diabetes. Retrieved from <https://www.healthypeople.gov/2020/topics-objectives/topic/diabetes>
- ^{xli} Healthy People 2020 (2021). Heart Disease and Stroke. Retrieved from <https://www.healthypeople.gov/2020/topics-objectives/topic/heart-disease-and-stroke>
- ^{xlii} American Heart Association (2020). What COVID-19 is doing to the Heart, Even After Recovery. Retrieved from <https://www.heart.org/en/news/2020/09/03/what-covid-19-is-doing-to-the-heart-even-after-recovery>
- ^{xliii} Overdose Death Data, obtained by Maricopa County Office of the Medical Examiner, cleaned and analyzed by Maricopa County Department of Public Health.
- ^{xliv} National Institute on Drug Abuse (2021). COVID-19 & Substance Use. Retrieved from <https://www.drugabuse.gov/drug-topics/comorbidity/covid-19-substance-use>
- ^{xlv} Arizona Cancer Registry (2019). Data Query System. Retrieved from http://healthdata.az.gov/query/module_selection/azcr/AzCRSelection.html
- ^{xlvi} JCO Clinical Cancer Informatics (2020). Impact of COVID-19 on Cancer Care: How the Pandemic is Delaying Cancer Diagnosis and Treatment for American Seniors. Retrieved from <https://ascopubs.org/doi/10.1200/CCI.20.00134>
- ^{xlvii} National Coalition for the Homeless (2020). Housing. Retrieved from <https://nationalhomeless.org/issues/housing/>
- ^{xlviii} PolicyMap (2019). Retrieved from <https://www.policymap.com/maps>
-

-
- ^{xlix} County Health Rankings & Roadmaps. Access to Care. Retrieved from <https://www.countyhealthrankings.org/explore-health-rankings/measures-data-sources/county-health-rankings-model/health-factors/clinical-care/access-to-care>
- ^l Healthy People 2020 (2021). Access to Health Services. Retrieved from <https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-health/interventions-resources/access-to-health>
- ^{li} National Academy of Social Insurance (2020). The impact of the COVID-19 Pandemic on Access to Health Care. Retrieved from <https://www.nasi.org/research/medicare-health-policy/the-impact-of-the-covid-19-pandemic-on-access-to-health-care/>
- ^{lii} National Center for Health Statistics (2021). Reduced Access to Care. Retrieved from <https://www.cdc.gov/nchs/covid19/rands/reduced-access-to-care.htm#limitations>
- ^{liii} Healthy People 2020 (2021). Access to Health Services. Retrieved from <https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-health/interventions-resources/access-to-health>
- ^{liiv} Health Poverty Action (2018). Maternal & Child Health. Retrieved from <https://www.healthpovertyaction.org/how-poverty-is-created/women-girls/maternal-child-health/>
- ^{liv} March of Dimes. Inadequate Prenatal Care by Race. Retrieved from <https://www.marchofdimes.org/peristats/ViewSubtopic.aspx?reg=04&top=5&stop=36&lev=1&obj=8&cmp=04013&slev=4&sty=9999&eny=-1&chy=>
- ^{lvi} Centers for Disease Control and Prevention (2021). Pregnant and Recently Pregnant People at Increased Risk for Severe Illness from COVID-19. Retrieved from <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/pregnant-people.html>
- ^{lvii} Arizona State University (2020). Research shows Pandemic-Induced Food Insecurity on the Rise in Arizona. Retrieved from <https://news.asu.edu/20201201-arizona-impact-research-shows-pandemic-induced-food-insecurity-rise-arizona>
- ^{lviii} Feeding America (2019). Food Insecurity in Maricopa County. Retrieved from <https://map.feedingamerica.org/county/2019/overall/arizona/county/maricopa>
- ^{lix} Healthy People 2020. Injury and Violence Prevention. Retrieved from <https://www.healthypeople.gov/2020/topics-objectives/topic/injury-and-violence-prevention>
- ^{lx} Arizona Department of Health Services. Accidental (unintentional injury) Deaths by Year Among Arizona Residents, 2009-2019. Retrieved from <https://pub.azdhs.gov/health-stats/report/im/2019/accidents/pdf/2-1.pdf>.
- ^{lxi} National Conference of State Legislatures (2017). Injury and Violence Prevention. Retrieved from <https://www.ncsl.org/research/health/injury-and-violence-prevention.aspx>
- ^{lxii} Emory University Injury Prevention Research Center at Emory. COVID-19 and Injury Prevention. Retrieved from <https://iprce.emory.edu/covid/index.html>