

# MEMORIAL HOSPITAL LOS BANOS

**2022 Community Health Needs Assessment** 

#### Mission

We enhance the well-being of people in the communities we serve through a not-for-profit commitment to compassion and excellence in healthcare services.

#### **Vision**

Sutter Health leads the transformation of healthcare to achieve the highest levels of quality, access, and affordability.

## **Community Health Needs Assessment**

The following report contains Memorial Hospital Los Banos' 2022 Community Health Needs Assessment (CHNA), which is used to identify and prioritize the significant health needs of the communities we serve. CHNAs are conducted once every three years, in collaboration with other healthcare providers, public health departments and a variety of community organizations. This CHNA report guides our strategic investments in community health programs and partnerships that extend Sutter Health's not-for-profit mission beyond the walls of our hospitals, improving health and quality of life in the areas we serve.

## **2022 Community Health Needs Assessment**

Conducted on behalf of

## Memorial Hospital Los Banos 520 West I Street Los Banos, CA 93635

Conducted by



March 2022

## **Acknowledgments**

We are deeply grateful to all those who contributed to the community health needs assessment conducted on behalf of Memorial Hospital Los Banos. Many dedicated community health experts and members of various social-service organizations serving the most vulnerable members of the community gave their time and expertise as key informants to help guide and inform the findings of the assessment. Many community residents also participated and volunteered their time to tell us what it is like to live in the community and shared the challenges they face trying to achieve better health. To everyone who supported this important work, we extend our heartfelt gratitude.

Community Health Insights (www.communityhealthinsights.com) conducted the assessment on behalf of Memorial Hospital Los Banos. Community Health Insights is a Sacramento-based research-oriented consulting firm dedicated to improving the health and well-being of communities across Central and Northern California. This joint report was authored by:

- Dale Ainsworth, PhD, MSOD, Managing Partner of Community Health Insights and Associate Professor of Public Health at California State University, Sacramento
- Heather Diaz, DrPH, MPH, Managing Partner of Community Health Insights and Professor of Public Health at California State University, Sacramento
- Mathew Schmidtlein, PhD, MS, Managing Partner of Community Health Insights and Professor of Geography at California State University, Sacramento
- Traci Van, Senior Community Impact Specialist of Community Health Insights

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## **Report Summary**

## **Purpose**

The purpose of this community health needs assessment (CHNA) was to identify and prioritize significant health needs of the Memorial Hospital Los Banos (MHLB) service area. The priorities identified in this report help to guide nonprofit 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 the requirements of the Patient Protection and Affordable Care Act (and in California, Senate Bill 697) that nonprofit hospitals conduct a community health needs assessment at least once every three years. The CHNA was conducted by Community Health Insights (www.communityhealthinsights.com).

## **Community Definition**

The definition of the community served by the hospital was defined by four ZIP Code boundaries: 93620, 93635, 93665, and 95322. This service area was identified as the area where the majority of patients served by the hospital resided. The total population of the service area was 61,211.

The city and community of Los Banos is located in Merced County near the Interstate 5 corridor. Los Banos sits at the intersection of State Routes 152 and 165. According to the 2020 U.S. census, the city of Los Banos had a population of just over 44,000 residents, second only to the city of Merced as the county's largest city. The community serves as a bedroom community for those commuting to and from the Bay Area.

Merced County, named after the Merced River, sits in the heart of California's central valley and much of its economy is driven by agriculture. The county covers approximately 2,000 square miles. From an employment perspective, the county's largest industries include government, agriculture, and healthcare. According to *County Health Rankings*<sup>1</sup> Merced County ranks as the 38<sup>th</sup> most healthy county among the 58 in California. Hispanic/Latino's account for over 60% of the total population, followed by non-Hispanic Whites at just over 26%.

#### **Assessment Process and Methods**

The data used to conduct the CHNA were identified and organized using the widely recognized Robert Wood Johnson Foundation's County Health Rankings model.<sup>2</sup> This model of population health includes many factors that impact and account for individual health and well-being. Furthermore, to guide the overall process of conducting the assessment, a defined set of data-collection and analytic stages were developed. These included the collection and analysis of both primary (qualitative) and secondary (quantitative) data. Qualitative data included one-on-one and group interviews with 11 community health experts, social-service providers, and medical personnel. Furthermore, 18 community residents or community service provider organizations participated in 4 focus groups across the service area.

<sup>&</sup>lt;sup>1</sup> Robert Wood Johnson Foundation, and University of Wisconsin, 2021. County Health Rankings Model. Retrieved 31 Jan 2022 from http://www.countyhealthrankings.org/.

<sup>&</sup>lt;sup>2</sup> Ibid.

Focusing on social determinants of health to identify and organize secondary data, datasets included measures to describe mortality and morbidity and social and economic factors such as income, educational attainment, and employment. Furthermore, the measures also included indicators to describe health behaviors, clinical care (both quality and access), and the physical environment.

At the time that this CHNA was conducted, the COVID-19 pandemic was still impacting communities across the United States, including MHLB's service area. The process for conducting the CHNA remained fundamentally the same. However, there were some adjustments made during the qualitative data collection to ensure the health and safety of those participating. Additionally, COVID-19 data were incorporated into the quantitative data analysis and the COVID-19 impact was captured during qualitative data collection. These findings are reported throughout various sections of the report.

## **Process and Criteria to Identify and Prioritize Significant Health Needs**

Primary and secondary data were analyzed to identify and prioritize significant health needs. This began by identifying 12 potential health needs (PHNs). These PHNs were identified in previously conducted CHNAs. Data were analyzed to discover which, if any, of the PHNs were present in the service area. These PHNs were selected as significant health needs. These significant health needs were prioritized based on rankings provided by primary data sources. Data were also analyzed to detect emerging health needs beyond those 12 PHNs identified in previous CHNAs.

## **List of Prioritized Significant Health Needs**

The following significant health needs identified for Memorial Hospital Los Banos are listed below in prioritized order.

- Access to Basic Needs Such as Housing, Jobs, and Food
- 2. Access to Mental/Behavioral Health and Substance-Use Services
- 3. Access to Specialty and Extended Care
- 4. Access to Quality Primary Care Health Services
- 5. Injury and Disease Prevention and Management
- 6. Access to Functional Needs
- 7. Increased Community Connections
- 8. Active Living and Healthy Eating
- 9. Safe and Violence-Free Environment
- 10. System Navigation
- 11. Access to Dental Care and Preventive Services
- 12. Healthy Physical Environment

## **Resources Potentially Available to Meet the Significant Health Needs**

In all, 143 resources were identified in the service area that were potentially available to meet the identified significant health needs. The identification method included starting with the list of resources from the 2019 CHNA, verifying that the resources still existed, and then adding newly identified resources into the 2022 CHNA report.

#### **Conclusion**

This CHNA details the process and findings of a comprehensive health assessment to guide decision-making for the implementation of community health improvement efforts using a health equity lens. The CHNA includes an overall health and social examination of MHLB's service area and highlights the needs of community members living in parts of the county where the residents experience more health disparities. This report also serves as a resource for community organizations in their effort to improve health and well-being in the communities they serve.

## **Introduction and Purpose**

Both state and federal laws require that nonprofit hospitals conduct a community health needs assessment (CHNA) every three years to identify and prioritize the significant health needs of the communities they serve. The results of the CHNA guide the development of implementation plans aimed at addressing identified health needs. Federal regulations define a health need accordingly: "Health needs include requisites for the improvement or maintenance of health status in both the community at large and in particular parts of the community (such as particular neighborhoods or populations experiencing health disparities)" (p. 78963).<sup>3</sup>

This report documents the processes, methods, and findings of a CHNA conducted on behalf of Memorial Hospital Los Banos (MHLB), located at 520 West I Street, Los Banos, CA 93635. MHLB's primary service area includes the city of Los Banos and surrounding community and was defined by four ZIP Codes: 93620, 93635, 93665, and 95322. The total population of the service area was 61,211.

MHLB is an affiliate of Sutter Health, a nonprofit healthcare system. The CHNA was conducted over a period of five months, beginning in December 2021 and concluding in April 2022. This CHNA report meets requirements of the Patient Protection and Affordable Care Act and California Senate Bill 697 that nonprofit hospitals conduct a community health needs assessment at least once every three years.

Community Health Insights (www.communityhealthinsights.com) conducted the CHNA on the behalf of MHLB. Community Health Insights is a Sacramento-based research-oriented consulting firm dedicated to improving the health and well-being of communities across Central and Northern California. Community Health Insights has conducted dozens of CHNAs for multiple health systems and local health departments over the previous decade.

## **Findings**

## **Prioritized Significant Health Needs**

Primary and secondary data were analyzed to identify and prioritize the significant health needs in the MHLB service area. In all, 12 significant health needs were identified. Primary data were then used to prioritize these significant health needs.

Prioritization was based on two measures that came from the key informant interview and focus group results. These included the percentage of sources that identified a health need as existing in the community, and the percentage of times the sources identified a health need as a top priority. Table 1 shows the value of these measures for each significant health need.

<sup>&</sup>lt;sup>3</sup> Federal Register, Vol. 79, No. 250, (Wednesday, December 31, 2014). Department of the Treasury, Internal Revenue Service.

Table 1: Health need prioritization inputs for MHLB service area.

Prioritized Health Needs	Percentage of Key Informants and Focus Groups Identifying Health Need	Percentage of Times Key Informants and Focus Groups Identified Health Need as a Top Priority
Access to Basic Needs Such as Housing, Jobs, and Food	100%	27%
Access to Mental/Behavioral Health and Substance-Use Services	100%	20%
Access to Specialty and Extended Care	100%	10%
Access to Quality Primary Care Health Services	82%	14%
Injury and Disease Prevention and Management	82%	13%
Access to Functional Needs	91%	1%
Increased Community Connections	82%	2%
Active Living and Healthy Eating	64%	7%
Safe and Violence-Free Environment	55%	5%
System Navigation	64%	~
Access to Dental Care and Preventive Services	36%	~
Healthy Physical Environment	9%	~

<sup>~</sup> Health need not mentioned

These measures were then combined to create a health need prioritization index. The highest priority was given to health needs that were more frequently mentioned and were more frequently identified among the top priority needs.<sup>4</sup> The prioritization index values are shown in Figure 1, where health needs are ordered from highest priority at the top of the figure to lowest priority at the bottom.

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<sup>&</sup>lt;sup>4</sup> Further details regarding the creation of the prioritization index can be found in the technical report.

## Memorial Hospital Los Banos 2022 Prioritized Health Needs

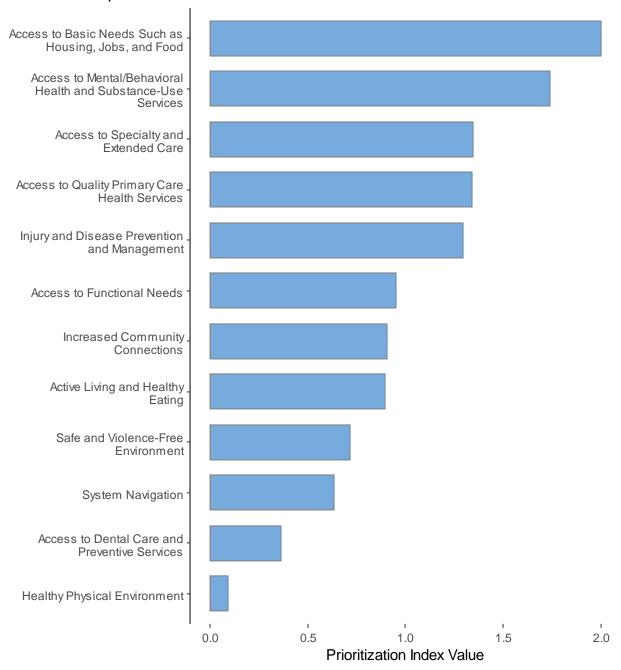


Figure 1: Prioritized significant health needs for MHLB service area.

While COVID-19 was top of mind for many participating in the primary data collection process, feedback regarding the impact of COVID-19 confirmed that the pandemic exacerbated existing needs in the community.

The significant health needs are described below. Those secondary data indicators used in the CHNA that performed poorly compared to benchmarks are listed in the table below each significant health ordered by their relationship to the conceptual model used to guide data collection for this report.

Results from primary data analysis are also provided in the table. (A full listing of all quantitative indicators can be found in the technical section of this report).

#### 1. Access to Basic Needs Such as Housing, Jobs, and Food

Access to affordable and clean housing, stable employment, quality education, and adequate food for good health are vital for survival. Maslow's Hierarchy of Needs<sup>5</sup> suggests that only when people have their basic physiological and safety needs met can they become engaged members of society and self-actualize or live to their fullest potential, including enjoying good health. Research shows that the social determinants of health, such as quality housing, adequate employment and income, food security, education, and social support systems, influence individual health as much as health behaviors and access to clinical care.<sup>6</sup>

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was	The following indicators performed worse
expressed in the community was described as follows by	in the service area when compared to state
key informants and focus group participants:	averages:
<ul> <li>key informants and focus group participants:</li> <li>There are limited options for youth to find employment in the community.</li> <li>Homelessness is on the rise in the community.</li> <li>The community lacks affordable housing.</li> <li>The community needs more housing options for low-income residents.</li> <li>Food insecurity is on the rise in the community.</li> <li>The community needs more employment opportunities that pay a living wage.</li> <li>Too many residents must travel out of the community to find employment.</li> <li>There are not enough shelters for community members experiencing homelessness.</li> <li>The area needs more nonprofit organizations providing services.</li> <li>The community needs more job training services for residents that are unskilled.</li> <li>The lack of housing options makes it difficult to attract workers from outside the area.</li> <li>Families experiencing homelessness have nowhere to go in the area.</li> </ul>	
	Rate
	<ul><li>Some College</li><li>High School Completion</li></ul>
	- Tigii School Completion

<sup>&</sup>lt;sup>5</sup> McLeod, S. 2020. Maslow's Hierarchy of Needs. Retrieved 31 Jan 2022 from http://www.simplypsychology.org/maslow.html.

<sup>6</sup> Robert Wood Johnson Foundation, and University of Wisconsin, 2022. Research Articles. Retrieved 31 Jan 2022 from http://www.countyhealthrankings.org/learn-others/research-articles#Rankingsrationale.

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was	The following indicators performed worse
expressed in the community was described as follows by	in the service area when compared to state
key informants and focus group participants:	averages:
	Disconnected Youth
	Third Grade Reading Level
	Third Grade Math Level
	Unemployment
	Children in Single-Parent Households
	Social Associations
	Children Eligible for Free Lunch
	Children in Poverty
	Median Household Income
	Uninsured Population under 64
	Homeownership

#### 2. Access to Mental/Behavioral Health and Substance-Use Services

Individual health and well-being are inseparable from individual mental and emotional outlook. Coping with daily life stressors is challenging for many people, especially when other social, familial, and economic challenges occur. Access to mental, behavioral, and substance-use services is an essential ingredient for a healthy community where residents can obtain additional support when needed.

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was	The following indicators performed worse
expressed in the community was described as follows by	in the service area when compared to
key informants and focus group participants:	state averages:
	<del> </del>
There are not enough providers serving the	Life Expectancy
community.	Premature Age-Adjusted Mortality
<ul> <li>Providers need more cultural competence to serve all</li> </ul>	Premature Death
populations in the community.	Liver Disease Mortality
<ul> <li>Mental health services are too expensive for many</li> </ul>	Poor Mental Health Days
that need them.	Frequent Mental Distress
• There are excessive wait-times to see a mental health	Poor Physical Health Days
provider.	Frequent Physical Distress
<ul> <li>There are limited providers that can serve the LGTBQ</li> </ul>	Poor or Fair Health
community.	Drug Induced Death
<ul> <li>Mental health services for youth are needed in the</li> </ul>	Adult Smoking
schools.	Primary Care Shortage Area
<ul> <li>There is excessive tobacco and substance use among</li> </ul>	Mental Health Care Shortage Area
youth in the community.	Medically Underserved Area
<ul> <li>Many youths suffer from Adverse Childhood</li> </ul>	Mental Health Providers
Experiences (ACES) and need treatment.	Psychiatry Providers
Many organizations need trained to deliver "trauma	
informed" care to the community.	Firearm Fatalities Rate
	Juvenile Arrest Rate
There is limited substance use treatment options in	Disconnected Youth

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was	The following indicators performed worse
expressed in the community was described as follows by	in the service area when compared to
key informants and focus group participants:	state averages:
the community.	Social Associations
<ul> <li>Opioid use is a growing problem in the community.</li> </ul>	
<ul> <li>There are too few mental health providers that take</li> </ul>	
Medi-Cal.	
<ul> <li>The county needs a sobering facility.</li> </ul>	
<ul> <li>Because of the lack of available services, many</li> </ul>	
patients that need mental health services go to the	
emergency room.	

#### 3. Access to Specialty and Extended Care

Extended care, which includes specialty care, is care provided in a particular branch of medicine and is focused on the treatment of a particular disease. Primary and specialty care go hand-in-hand, and without access to specialists, such as endocrinologists, cardiologists, and gastroenterologists, community residents are often left to manage the progression of chronic diseases, including diabetes and high blood pressure, on their own. In addition to specialty care, extended care refers to care extending beyond primary care services that are needed in the community to support overall physical health and wellness, such as skilled-nursing facilities, hospice care, and in-home healthcare.

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was expressed in the community was described as follows by key informants and focus group participants:	The following indicators performed worse in the service area when compared to state averages:
<ul> <li>Residents must travel out of the area to access specialists.</li> <li>There are not enough specialists willing to see low-income populations.</li> <li>The community lacks many specialty providers.</li> <li>The community needs more culturally competent specialists.</li> <li>Mothers are not getting adequate pre-natal and postpartum care.</li> <li>The community needs more options for eye-care.</li> <li>The lack of specialists places more pressure on primary care providers.</li> <li>The community lacks long-term care options for the elderly.</li> </ul>	<ul> <li>Life Expectancy</li> <li>Premature Age-Adjusted Mortality</li> <li>Premature Death</li> <li>Chronic Lower Respiratory Disease Mortality</li> <li>Diabetes Mortality</li> <li>Liver Disease Mortality</li> <li>Kidney Disease Mortality</li> <li>COVID-19 Mortality</li> <li>COVID-19 Case Fatality</li> <li>Diabetes Prevalence</li> <li>Poor Mental Health Days</li> <li>Frequent Mental Distress</li> <li>Poor Physical Health Days</li> <li>Frequent Physical Distress</li> <li>Poor or Fair Health</li> <li>Lung Cancer Prevalence</li> <li>Asthma ED Rates</li> </ul>
	<ul><li>Asthma ED Rates</li><li>Asthma ED Rates for Children</li></ul>

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was	The following indicators performed worse
expressed in the community was described as follows by	in the service area when compared to
key informants and focus group participants:	state averages:
	Drug Induced Death
	Psychiatry Providers
	Specialty Care Providers
	Preventable Hospitalization

#### 4. Access to Quality Primary Care Health Services

Primary care resources include community clinics, pediatricians, family practice physicians, internists, nurse practitioners, pharmacists, telephone advice nurses, and other similar resources. Primary care services are typically the first point of contact when an individual seeks healthcare. These services are the front line in the prevention and treatment of common diseases and injuries in a community.

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was	The following indicators performed worse
expressed in the community was described as follows by	in the service area when compared to
key informants and focus group participants:	state averages:
<ul> <li>There are excessive wait times to see a doctor.</li> </ul>	Child Mortality
<ul> <li>Many providers do not have adequate interpretive</li> </ul>	Life Expectancy
services.	Premature Age-Adjusted Mortality
<ul> <li>Providers need more training in providing culturally</li> </ul>	Premature Death
competent care to patients.	Chronic Lower Respiratory Disease
Because of physician turnover in the community, it is	Mortality
challenging to develop lasting relationships with one's	Diabetes Mortality
provider.	Liver Disease Mortality
Providers often do not understand the specific	Kidney Disease Mortality
healthcare needs of the LGBTQ community.	COVID-19 Mortality
Many undocumented residents do not have access to	COVID-19 Case Fatality
healthcare services.	Influenza and Pneumonia Mortality
The uninsured in the community have difficulty	Diabetes Prevalence
accessing healthcare services.	Poor Mental Health Days
The community has a shortage of primary care	Frequent Mental Distress
providers.	Poor Physical Health Days
There are not enough providers that accept Medi-Cal in	Frequent Physical Distress
the community.	Poor or Fair Health
The outlying areas of the community have limited  providers making access more difficult.	Colorectal Cancer Prevalence
providers making access more difficult.	Lung Cancer Prevalence
<ul> <li>The capacity of the hospital is limited.</li> </ul>	Asthma ED Rates
	Asthma ED Rates for Children
	Primary Care Shortage Area
	Medically Underserved Area
	Primary Care Providers
	Preventable Hospitalization

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was	The following indicators performed worse
expressed in the community was described as follows by	in the service area when compared to
key informants and focus group participants:	state averages:
	COVID-19 Cumulative Full
	Vaccination Rate
	Uninsured Population under 64

#### 5. Injury and Disease Prevention and Management

Knowledge is important for individual health and well-being, and efforts aimed at injury and disease prevention are powerful vehicles to improve community health. When community residents lack adequate information on how to prevent, manage, and control their health conditions, those conditions tend to worsen. Prevention efforts focus on reducing cases of injury and infectious disease control (e.g., sexually transmitted infection (STI) prevention and influenza shots), and intensive strategies in the management of chronic diseases (e.g., diabetes, hypertension, obesity, and heart disease) are important for community health improvement.

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was	The following indicators performed worse
expressed in the community was described as follows by	in the service area when compared to state
key informants and focus group participants:	averages:
• The community lacks after-school programs for youth.	Child Mortality
• There is too much focus on treatment in the area, and	Chronic Lower Respiratory Disease
not enough focus on prevention.	Mortality
<ul> <li>The community needs more health education</li> </ul>	Diabetes Mortality
opportunities.	Liver Disease Mortality
<ul> <li>A focus on maternal-child health is lacking in the</li> </ul>	Kidney Disease Mortality
community.	Unintentional Injuries Mortality
<ul> <li>The community needs nutrition education options.</li> </ul>	COVID-19 Mortality
	COVID-19 Case Fatality
	Diabetes Prevalence
	Poor Mental Health Days
	Frequent Mental Distress
	Frequent Physical Distress
	Poor or Fair Health
	COVID-19 Cumulative Incidence
	Asthma ED Rates
	Asthma ED Rates for Children
	Drug Induced Death
	Adult Obesity
	Physical Inactivity
	Chlamydia Incidence
	Teen Birth Rate
	Adult Smoking
	COVID-19 Cumulative Full Vaccination

Primary Data Analysis	Secondary Data Analysis				
The manner in which the health need appeared or was	The following indicators performed worse				
expressed in the community was described as follows by	in the service area when compared to state				
key informants and focus group participants:	averages:				
	Rate				
	Firearm Fatalities Rate				
	Juvenile Arrest Rate				
	Motor Vehicle Crash Death				
	Disconnected Youth				
	Third Grade Reading Level				
	Third Grade Math Level				

#### 6. Access to Functional Needs

Functional needs refer to needs related to adequate transportation access and conditions which promote access for individuals with physical disabilities. Having access to transportation services to support individual mobility is a necessity of daily life. Without transportation, individuals struggle to meet their basic needs, including those needs that promote and support a healthy life. The number of people with a disability is also an important indicator for community health and must be examined to ensure that all community members have access to necessities for a high quality of life.

Primary Data Analysis	Secondary Data Analysis			
The manner in which the health need appeared or was expressed in the community was described as follows by key informants and focus group participants:	The following indicators performed worse in the service area when compared to state averages:			
<ul> <li>Buses are inadequate, too many residents must walk to get around the area.</li> <li>There are limited transportation options for residents that do not have a car.</li> <li>It is challenging to access healthcare using only the bus system, especially for mothers of small children.</li> <li>Lower income populations do not have access to the internet, making telehealth visits impossible.</li> <li>There are no transportation options for those living in the rural areas of the county.</li> <li>There are limited transportation options for the disabled.</li> </ul>	<ul> <li>Disability</li> <li>Frequent Mental Distress</li> <li>Frequent Physical Distress</li> <li>Poor or Fair Health</li> <li>Adult Obesity</li> <li>COVID-19 Cumulative Full Vaccination Rate</li> </ul>			

#### 7. Increased Community Connections

As humans are social beings, community connection is a crucial part of living a healthy life. People have a need to feel connected with a larger support network and the comfort of knowing they are accepted and loved. Research suggests "individuals who feel a sense of security, belonging, and trust in their community have better health. People who don't feel connected are less inclined to act in healthy ways

or work with others to promote well-being for all."<sup>7</sup> Assuring that community members have ways to connect with each other through programs, services, and opportunities is important in fostering a healthy community. Further, healthcare and community support services are more effective when they are delivered in a coordinated fashion, where individual organizations collaborate with others to build a network of care.

Primary Data Analysis	Secondary Data Analysis				
The manner in which the health need appeared or was	The following indicators performed worse				
expressed in the community was described as follows by	in the service area when compared to state				
key informants and focus group participants:	averages:				
The manner in which the health need appeared or was expressed in the community was described as follows by	The following indicators performed worse in the service area when compared to state averages:  Child Mortality Life Expectancy Premature Age-Adjusted Mortality Premature Death Diabetes Mortality Unintentional Injuries Mortality Diabetes Prevalence Poor Mental Health Days Frequent Mental Distress Poor Physical Health Days Frequent Physical Distress Poor or Fair Health Drug Induced Death Physical Inactivity Access to Exercise Opportunities Teen Birth Rate Primary Care Shortage Area Mental Health Care Shortage Area Medically Underserved Area Mental Health Providers Psychiatry Providers Specialty Care Providers Primary Care Providers Primary Care Providers				
	-				
	Homicide Rate				
	Firearm Fatalities Rate				
	Violent Crime Rate				
	Juvenile Arrest Rate				
	Some College				
	High School Completion				

<sup>&</sup>lt;sup>7</sup> Robert Wood Johnson Foundation. 2016. Building a Culture of Health: Sense of Community. Retrieved 31 Jan 2022 from https://www.rwjf.org/en/cultureofhealth/taking-action/making-health-a-shared-value/sense-of-community.html

Primary Data Analysis	Secondary Data Analysis				
The manner in which the health need appeared or was	The following indicators performed worse				
expressed in the community was described as follows by	in the service area when compared to state				
key informants and focus group participants:	averages:				
	Disconnected Youth				
	Unemployment				
	Children in Single-Parent Households				
	Social Associations				

#### 8. Active Living and Healthy Eating

Physical activity and eating a healthy diet are important for one's overall health and well-being. Frequent physical activity is vital for prevention of disease and maintenance of a strong and healthy heart and mind. When access to healthy foods is challenging for community residents, many turn to unhealthy foods that are convenient, affordable, and readily available. Communities experiencing social vulnerability and poor health outcomes often live in areas with fast food and other establishments where unhealthy food is sold. Under-resourced communities may be challenged with food insecurity, absent the means to consistently secure food for themselves or their families, relying on food pantries and school meals that often lacking in sufficient nutrition for maintaining health

Primary Data Analysis	Secondary Data Analysis				
The manner in which the health need appeared or was	The following indicators performed				
expressed in the community was described as follows by key	worse in the service area when compared				
informants and focus group participants:	to state averages:				
<ul> <li>The community lacks opportunities for youth to stay</li> </ul>	Life Expectancy				
active.	Premature Age-Adjusted Mortality				
<ul> <li>The community needs more farmer's markets.</li> </ul>	Premature Death				
<ul> <li>There is limited access to healthy foods in parts of the</li> </ul>	Diabetes Mortality				
community.	Kidney Disease Mortality				
<ul> <li>Schools need to provider healthier food to students,</li> </ul>	Diabetes Prevalence				
lowering the salt content.	Poor Mental Health Days				
<ul> <li>Nutritious and healthy foods are less affordable.</li> </ul>	Frequent Mental Distress				
<ul> <li>There are no grocery stores in Gustine or Santa Nella,</li> </ul>	Poor Physical Health Days				
limiting access to healthy foods in those communities.	Frequent Physical Distress				
The community needs more options for physical	Poor or Fair Health				
activity, such as fitness centers or gyms.	Colorectal Cancer Prevalence				
<ul> <li>There are food deserts in the community.</li> </ul>	Asthma ED Rates				
	Asthma ED Rates for Children				
	Adult Obesity				
	Physical Inactivity				
	Limited Access to Healthy Foods				
	Food Environment Index				
	Access to Exercise Opportunities				

#### 9. Safe and Violence-Free Environment

Feeling safe in one's home and community are fundamental to overall health. Next to having basic needs met (e.g., food, shelter, and clothing) is having physical safety. Feeling unsafe affects the way people act and react to everyday life occurrences. Further, research has demonstrated that individuals exposed to violence in their homes, the community, and schools are more likely to experience depression and anxiety and demonstrate more aggressive, violent behavior.<sup>8</sup>

Primary Data Analysis	Secondary Data Analysis				
The manner in which the health need appeared or was	The following indicators performed worse				
expressed in the community was described as follows by	in the service area when compared to				
key informants and focus group participants:	state averages:				
<ul> <li>Parks are no longer safe places to go in the</li> </ul>	Life Expectancy				
community.	<ul> <li>Premature Death</li> </ul>				
<ul> <li>Some areas are not safe due to gang violence in the</li> </ul>	<ul> <li>Poor Mental Health Days</li> </ul>				
community.	Frequent Mental Distress				
<ul> <li>Some parents work outside of the area leaving</li> </ul>	Frequent Physical Distress				
children unsupervised for long periods.	Poor or Fair Health				
<ul> <li>Gang activity is growing in the community.</li> </ul>	Physical Inactivity				
<ul> <li>There are areas in the community where LGTBQ do not</li> </ul>	Access to Exercise Opportunities				
feel safe.	Homicide Rate				
<ul> <li>There is increased violence in the community brought</li> </ul>	Firearm Fatalities Rate				
on by gangs.	Violent Crime Rate				
<ul> <li>Some neighborhoods need better lighting and more</li> </ul>	Juvenile Arrest Rate				
sidewalks.	Motor Vehicle Crash Death				
<ul> <li>There are not enough safe spaces for kids to gather</li> </ul>	Disconnected Youth				
and play outdoors.	Social Associations				
<ul> <li>There is human trafficking in the community; need</li> </ul>					
more awareness and prevention.					

#### 10. System Navigation

System navigation refers to an individual's ability to traverse fragmented social-services and healthcare systems in order to receive the necessary benefits and supports to improve health outcomes. Research has demonstrated that navigating the complex U.S. healthcare system is a barrier for many that results in health disparities. Further, accessing social-servicess provided by government agencies can be an obstacle for those with limited resources such as transportation access and English proficiency.

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was	The following indicators performed worse
expressed in the community was described as follows by	in the service area when compared to
key informants and focus group participants:	state averages:
It is difficult to access and navigate the healthcare	(there are no quantitative indicators

<sup>8</sup> Lynn-Whaley, J., & Sugarmann, J. July 2017. The Relationship Between Community Violence and Trauma. Los Angeles: Violence Policy Center.

<sup>9</sup> Natale-Pereira, A. et. al .2011. The Role of Patient Navigators in Eliminating Health Disparities. US National Library of Medicine, National Institutes of Health, 117:15, 3543-3552.

Primary Data Analysis	Secondary Data Analysis			
The manner in which the health need appeared or was	The following indicators performed worse			
expressed in the community was described as follows by	in the service area when compared to			
key informants and focus group participants:	state averages:			
system.	associated with this health need).			
<ul> <li>The lack of integration in the system makes it difficult</li> </ul>				
to navigate.				
<ul> <li>Many families to not know what services are available</li> </ul>				
to them.				

#### 11. Access to Dental Care and Preventive Services

Oral health is important for overall quality of life. When individuals have dental pain, it is difficult to eat, concentrate, and fully engage in life. Oral health disease, including gum disease and tooth decay are preventable chronic diseases that contribute to increased risk of other chronic disease and play a large role in chronic absenteeism from school by children. Poor oral health status impacts the health of the entire body, especially the heart and the digestive and endocrine systems.

Primary Data Analysis	Secondary Data Analysis				
The manner in which the health need appeared or was	The following indicators performed				
expressed in the community was described as follows by key	worse in the service area when				
informants and focus group participants:	compared to state averages:				
<ul> <li>Some parts of the community have no dentists.</li> </ul>	<ul> <li>Frequent Mental Distress</li> </ul>				
<ul> <li>It is difficult to get an appointment with a dentist.</li> </ul>	<ul> <li>Poor Physical Health Days</li> </ul>				
<ul> <li>There are limited dental services available for low-</li> </ul>	<ul> <li>Frequent Physical Distress</li> </ul>				
income community members.	<ul> <li>Poor or Fair Health</li> </ul>				
<ul> <li>Oral health needs to focus more on prevention in the</li> </ul>	<ul> <li>Dental Care Shortage Area</li> </ul>				
area.	Dentists				
• There are no specialty dental services in the community.					

#### 12. Healthy Physical Environment

Living in a pollution-free environment is essential for health. Individual health is determined by a number of factors, and some models show that one's living environment, including the physical (natural and built) and sociocultural environment, has more impact on individual health than one's lifestyle, heredity, or access to medical services.<sup>10</sup>

Primary Data Analysis	Secondary Data Analysis
The manner in which the health need appeared or was	The following indicators performed worse
expressed in the community was described as follows by	in the service area when compared to
key informants and focus group participants:	state averages:
<ul> <li>The community has limited re-cycling programs.</li> </ul>	Life Expectancy
	Premature Age-Adjusted Mortality
	Premature Death

<sup>&</sup>lt;sup>10</sup> Blum, H. L. 1983. Planning for Health. New York: Human Sciences Press

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Primary Data Analysis	Secondary Data Analysis				
The manner in which the health need appeared or was	The following indicators performed worse				
expressed in the community was described as follows by	in the service area when compared to				
key informants and focus group participants:	state averages:				
Rey informants and rocus group participants.	<ul> <li>Chronic Lower Respiratory Disease Mortality</li> <li>Frequent Mental Distress</li> <li>Frequent Physical Distress</li> <li>Poor or Fair Health</li> <li>Colorectal Cancer Prevalence</li> <li>Lung Cancer Prevalence</li> <li>Asthma ED Rates</li> <li>Asthma ED Rates for Children</li> <li>Adult Smoking</li> <li>Pollution Burden Percent</li> <li>Air Pollution - Particulate Matter</li> </ul>				
	Drinking Water Violations				

#### **Methods Overview**

### **Conceptual and Process Models**

The data used to conduct the CHNA were identified and organized using the widely recognized Robert Wood Johnson Foundation's County Health Rankings model. <sup>11</sup> This model of population health includes the many factors that impact and account for individual health and well-being. Furthermore, to guide the overall process of conducting the assessment, a defined set of data collection and analytic stages were developed. For a detailed review of methods, see the technical section.

## **Public Comments from Previously Conducted CHNAs**

Regulations require that nonprofit hospitals include written comments from the public on their previously conducted CHNAs and most recently adopted implementation strategies. MHLB requested written comments from the public on its 2019 CHNA and most recently adopted Implementation Strategy through SHCB@sutterhealth.org.

At the time of the development of this CHNA report, MHLB had not received written comments. However, input from the broader community was incorporated in the 2022 CHNA through key informant interviews and focus groups. MHLB will continue to use its website as a tool to solicit public comments and ensure that these comments are considered as community input in the development of future CHNAs.

<sup>11</sup> Robert Wood Johnson Foundation, and University of Wisconsin, 2021. County Health Rankings Model. Retrieved 31 Jan 2022 from http://www.countyhealthrankings.org/.

#### **Data Used in the CHNA**

Data collected and analyzed included both primary or qualitative data and secondary or quantitative data. Primary data included 8 interviews with 11 community health experts and 4 focus groups conducted with a total of 18 community residents or community service providers.

Secondary data included multiple datasets selected for use in the various stages of the analysis. A combination of mortality and socioeconomic datasets collected at subcounty levels was used to identify portions of the hospital service area with greater concentrations of disadvantaged populations and poor health outcomes. A set of county-level indicators was collected from various sources to help identify and prioritize significant health needs. Additionally, socioeconomic indicators were collected to help describe the overall social conditions within the service area. Health outcome indicators included measures of both mortality (length of life) and morbidity (quality of life). Health factor indicators included measures of 1) health behaviors, such as diet and exercise and tobacco, alcohol, and drug use; 2) clinical care, including access to quality care; 3) social and economic factors such as race/ethnicity, income, educational attainment, employment, neighborhood safety, and similar; and 4) physical environment measures, such as air and water quality, transit and mobility resources, and housing affordability. In all, 86 different health-outcome and health factor indicators were collected for the CHNA.

## **Data Analysis**

Primary and secondary data were analyzed to identify and prioritize the significant health needs within the MHLB service area. This included identifying 12 potential health needs (PHNs) in these communities. These PHNs were those identified in previously conducted CHNAs. Data were analyzed to discover which, if any, of the PHNs were present in the hospital's service area. After these were identified, health needs were prioritized based on an analysis of primary data sources that described the PHN as a significant health need.

For an in-depth description of the processes and methods used to conduct the CHNA, including primary and secondary data collection, analysis, and results, see the technical section of this report.

## **Description of Community Served**

The definition of the community served by the hospital was defined by four ZIP Code boundaries: 93620, 93635, 93665, and 95322. This service area was identified as the area where the majority of patients served by the hospital resided. The total population of the service area was 61,211.

The city and community of Los Banos is located in Merced County near the Interstate 5 corridor. Los Banos sits at the intersection of State Routes 152 and 165. According to the 2020 U.S. census, the city of Los Banos had a population of just over 44,000 residents, second only to the city of Merced as the county's largest city. The community serves as a bedroom community for those commuting to and from the San Francisco Bay Area.

Merced County, named after the Merced River, sits in the heart of California's central valley and much of its economy is driven by agriculture. The county covers approximately 2,000 square miles. From an employment perspective, the county's largest industries include government, agriculture, and

healthcare. According to *County Health Rankings*, <sup>12</sup> Merced County ranks as the 38<sup>th</sup> most healthy county among the 58 in California. Hispanic/Latino's account for over 60% of the total population, followed by non-Hispanic Whites at just over 26%. The service area is shown in Figure 2.

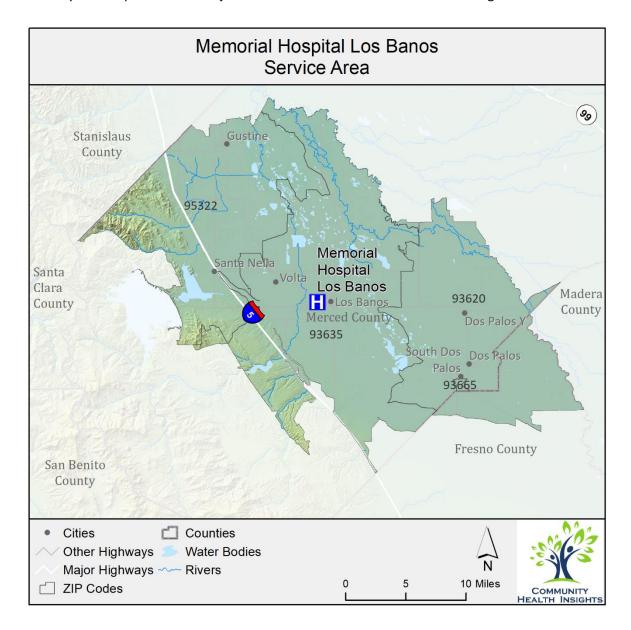


Figure 2: Community served by MHLB.

Population characteristics for each ZIP Code in the service area are presented in Table 2. These are compared to the state and county characteristics for descriptive purposes. Any ZIP Code with values that compared negatively to the state or county is highlighted.

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<sup>&</sup>lt;sup>12</sup> See www.countyhealthrankings.org

Table 2: Population characteristics for each ZIP Code located in the MHLB service area.

ZIP Code	Total Population	% Non-White or Hispanic\Latinx	Median Age (yrs.)	Median Income	% Poverty	% Unemployment	% Uninsured	% Without High School Graduation	% With High Housing Costs	% With Disability
93620	8,906	77.2	31.5	\$45,014	17.8	13.2	12.5	36.5	32.7	9.1
93635	41,180	78.8	30.7	\$62,526	17.5	12.8	9.1	30.6	37.1	11.2
93665	752	100.0	28.5	\$40,263	~	31.6	5.9	47.4	~	16.5
95322	10,373	66.3	35.1	\$54,820	22.1	11.7	10.4	28.5	32.8	15.7
Merced County	271,382	72.4	31.1	\$53,672	21.2	11.9	8.3	30.9	35.4	13.0
California	39,283,497	62.8	36.5	<i>\$75,235</i>	13.4	6.1	7.5	16.7	40.6	10.6

Source: 2019 American Community Survey 5-year estimates; U.S. Census Bureau.

## **Health Equity**

The Robert Wood Johnson Foundation's definition of health equity and social justice is used here to help establish a common understanding for the concept of health equity.

"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." <sup>13</sup>

Inequities experienced early and throughout one's life, such as limited access to a quality education, have health consequences that appear later in life as health disparities. Health disparities are defined as "preventable differences in the burden of disease, injury, violence, or opportunities to achieve optimal health experienced by populations, and defined by factors such as race or ethnicity, gender, education or income, disability, geographic location or sexual orientation." <sup>14</sup>

In the U.S. and many parts of the world inequities are most apparent when comparing various racial and ethnic groups to one another. Using these comparisons between racial and ethnic populations, it is clear that health inequities persist across communities, including Merced County.

This section of the report shows inequities in health outcomes, comparing these between race and ethnic groups. These differences inform better planning for more targeted interventions.

<sup>~</sup> Values for these indicators were determined to be unreliable and are omitted intentionally.

<sup>&</sup>lt;sup>13</sup> Robert Wood Johnsons Foundation. 2017. What is Health Equity? And What Difference Does a Definition Make? Health Equity Issue Brief #1. Retrieved 31 Jan 2022 from

https://buildhealthyplaces.org/content/uploads/2017/05/health\_equity\_brief\_041217.pdf .

<sup>&</sup>lt;sup>14</sup> Center for Disease Control and Prevention. 2008. Health Disparities Among Racial/Ethnic Populations. Community Health and Program Services (CHAPS): Atlanta: U.S. Department of Health and Human Services.

## **Health Outcomes - the Results of Inequity**

The table below displays disparities among race and ethnic groups for the service area for life expectancy, mortality, and low birth weight.

Table 3: Health outcomes comparing race and ethnicity in the MHLB service area.

Health Outcomes	Description	American Indian\ Alaska Native	Asian	Black	Hispanic	White	Overall
Life Expectancy	Average number of years a person can expect to live.	~	83.3	71.6	83.2	76.9	79.2
Child Mortality	Number of deaths among children under age 18 per 100,000 population.	~	~	99.9	41.4	37.5	40.9
Premature Age- Adjusted Mortality	Number of deaths among residents under age 75 per 100,000 population (ageadjusted).	403.5	274.8	667.1	256.8	418.3	342.3
Premature Death	Years of potential life lost before age 75 per 100,000 population (age-adjusted).	~	5,110	14,778.6	5,354.6	7,915.2	6,593
Low Birthweight	Percentage of live births with low birthweight (< 2,500 grams).	11.8%	6.2%	12.9%	6%	5.5%	6.2%
~ Data Not Availal	~ Data Not Available						
Data sources inclu	ided in the technical section of t	the report.					

When examining health outcomes, inequities are apparent among the different race and ethnic groups. For example, life expectancy was significantly lower among Blacks when compared to other groups, while child mortality, premature age-adjusted mortality, premature death and low birthweight were notably higher.

## **Health Factors - Inequities in the Service Area**

Inequalities can be seen in data that help describe health factors in the service area, such as education attainment and income. These health factors are displayed in the table below and are compared across race and ethnic groups.

Table 4: Health factors comparing race and ethnicity in the MHLB service area.

Health Factors	Description	American Indian\ Alaska Native	Asian	Black	Hispanic	White	Overall
Some College <sup>a</sup>	Percentage of adults ages 25 and over with some post-secondary education.	41.4%	52.7%	55.1%	31.4%	58.9%	43.9%
High School Completion <sup>a</sup>	Percentage of adults ages 25 and over with at least a high school diploma or equivalent.	69.9%	69.6%	86.4%	54.7%	88.1%	69.1%
Third Grade Reading Level	Average grade level performance for 3rd graders on English Language Arts standardized tests	2	2.9	~	2.6	3.1	2.7
Third Grade Math Level	Average grade level performance for 3rd graders on math standardized tests	~	2.7	~	2.4	2.8	2.5
Children in Poverty	Percentage of people under age 18 in poverty.	44.4%	23.2%	29.6%	33.9%	17.2%	22.5%
Median Household Income	The income where half of households in a county earn more and half of households earn less.	\$41,875	\$63,559	\$40,809	\$48,145	\$64,537	\$59,733
Uninsured Population <sup>b</sup>	Percentage of the civilian non-institutionalized population without health insurance.	6.3%	6.3%	5.8%	10.3%	5%	8.3%
~ Data Not Ava	lable						
Unless otherwise noted, data sources included in the technical section of the report.							

Unless otherwise noted, data sources included in the technical section of the report.

<sup>a</sup>From 2019 American Community Survey 5-year estimates tables B15002, C15002B, C15002C, C15002D, C15002H, and C15002I.

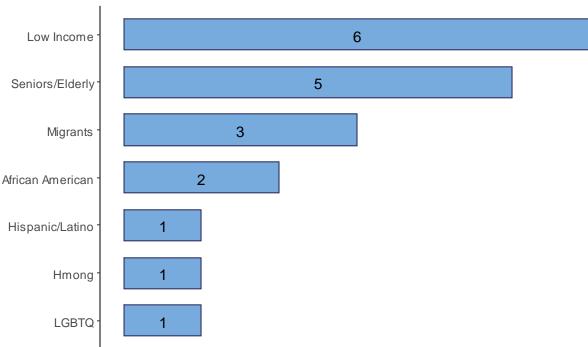
<sup>b</sup>From 2019 American Community Survey 5-year estimates table S2701.

Inequities can be seen among the health factors that lead to health outcomes when compared across groups. For example, while less than 20% of White children lived in poverty in the county, almost 45% of American Indian/Alaskan Native children lived in poverty. Further, while almost 90% of Whites completed high school, just over half of all Hispanics did.

## **Population Groups Experiencing Disparities**

The figure below describes populations in the MHLB service area identified through qualitative data analysis that were identified as experiencing health disparities. Interview participants were asked, "What specific groups of community members experience health issues the most?" Responses were analyzed by counting the total number of times all key informants and focus group participants mentioned a particular group as one experiencing disparities. Figure 3 displays the results of this analysis. The groups are not mutually exclusive—one group could be a subset of another group. One of

the purposes of identifying the sub-populations was to help guide additional qualitative data collection efforts to focus on the needs of these population groups.



## Frequency of Mentions in Interviews

Figure 3: Populations experiencing disparities the MHLB service area.

## **California Healthy Places Index**

Figure 4 displays the California Healthy Places Index (HPI)<sup>15</sup> values for the MHLB service area. The HPI is an index based on 25 health-related measures for communities across California. These measures included in the HPI were selected based on their known relationship to life expectancy and other health outcomes. These values are combined into a final score representing the overall health and well-being of the community which can then be used to compare the factors influencing health between communities. Higher HPI index values are found in communities with a collection of factors that contribute to greater health, and lower HPI values are found in communities where these factors are less present.

<sup>&</sup>lt;sup>15</sup> Public Health Alliance of Southern California. 2021. The California Health Places Index (HPI): About. Retrieved 26 July 2021 from https://healthyplacesindex.org/about/.

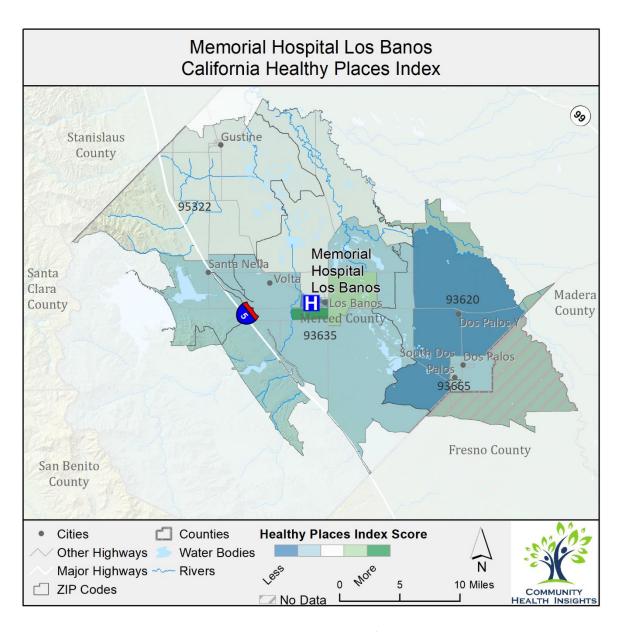


Figure 4: Healthy Places Index for MHLB.

Areas with the darkest blue shading in Figure 4 have the lowest overall HPI scores, indicating factors leading to less healthy neighborhoods. There are likely to be a higher concentration of residents in these locations experiencing health disparities.

## The Impact of COVID-19 on Health Needs

COVID-19 related health indicators regard the HSA are noted in Table 5.

Table 5: COVID-19-related rates for the MHLB service area.

Indicators	Description	Merced	California		
COVID-19 Mortality	Number of deaths due to COVID-19 per 100,000 population.	287.0	215.6	Merced: California:	287 215.6
COVID-19 Case Fatality	Percentage of COVID-19 deaths per laboratory-confirmed COVID-19 cases.	1.3%	1.0%	Merced: California:	1.3%
COVID-19 Cumulative Incidence	Number of laboratory- confirmed COVID-19 cases per 100,000 population.	22,658.5	21,335.2	Merced: California:	22,658.5 21,335.2
COVID-19 Cumulative Full Vaccination Rate	Number of completed COVID-19 vaccinations per 100,000 population.	51,461.8	69,774.3	Merced: California:	51,461.8 69,774.3

COVID-19 data collected on February 28 2022

Key informants and focus group participants were asked how the COVID-19 pandemic had impacted the health needs they described during interviews. A summary of their responses is shown in Table 6.

Table 6: The impacts of COVID-19 on health need as identified in primary data sources.

#### Key Informant and Focus Group Responses

- School closures resulted in youth getting behind in school and experiencing isolation and the lack of socialization.
- The pandemic brought economic hardships to the area, especially for the more vulnerable in the community; unemployment and poverty rates increased.
- There is a distrust of government institutions and this resulted in many not getting vaccinations.
- The community saw an increase in mental/behavior health and substance-use needs, including an increase in depression, substance-use, domestic violence, and child abuse.
- Those living in multi-generational housing were not able to isolate during the pandemic.
- The pandemic exacerbated an existing shortage in healthcare workers.
- Many in the community avoided preventative care.
- The pandemic increased food insecurity across the community.
- Economic issues brought on by the pandemic were especially devastating for the poor.
- Many ceased engaging in physical activities and gained weight over the course of the pandemic.

## Resources Potentially Available to Meet the Significant Health Needs

In all, 143 resources were identified in the MHLB service area that were potentially available to meet the identified significant health needs. These resources were provided by a total of 58 social-service, nonprofit, and governmental organizations, agencies, and programs identified in the CHNA. The identification method included starting with the list of resources from the 2019 Memorial Hospital Los

Banos CHNA, verifying that the resources still existed, and then adding newly identified resources into the 2022 CHNA report. Examination of the resources revealed the following numbers of resources for each significant health need as shown in Table 7.

Table 7: Resources potentially available to meet significant health needs in priority order.

Significant Health Needs (in Priority Order)	Number of Resources
Access to Basic Needs Such as Housing, Jobs, and Food	16
Access to Mental/Behavioral Health and Substance-Use Services	23
Access to Specialty and Extended Care	5
Access to Quality Primary Care Health Services	18
Injury and Disease Prevention and Management	18
Access to Functional Needs	4
Increased Community Connections	21
Active Living and Healthy Eating	3
Safe and Violence-Free Environment	7
System Navigation	18
Access to Dental Care and Preventive Services	9
Healthy Physical Environment	1
Total Resources	143

For more specific examination of resources by significant health need and by geographic location, as well as the detailed method for identifying these, see the technical section of this report.

## Impact and Evaluation of Actions Taken by Hospital

Regulations require that each hospital's CHNA report include "an evaluation of the impact of any actions that were taken since the hospital facility finished conducting its immediately preceding CHNA to address the significant health needs identified in the hospital facility's prior CHNA(s) (p. 78969)." <sup>16</sup> MHLB invested efforts to address the significant health needs identified in the prior CHNA. Appendix A includes details of those efforts.

## **Conclusion**

CHNAs play an important role in helping nonprofit hospitals and other community organizations determine where to focus community benefit and health improvement efforts, including targeting efforts in geographic locations and on specific populations experiencing inequities leading to health disparities. Data in the CHNA report can help provide nonprofit hospitals and community service providers with content to work in collaboration to engage in meaningful community work.

Please send any feedback about this CHNA report to SHCB@sutterhealth.org with "CHNA Comments" in the subject line. Feedback received will be incorporate into the next CHNA cycle.

<sup>&</sup>lt;sup>16</sup> Federal Register, Vol. 79, No. 250, (Wednesday, December 31, 2014). Department of the Treasury, Internal Revenue Service.

## **2022 CHNA Technical Section**

The following section presents a detailed account of data collection, analysis, and results for the Memorial Hospital Los Banos (MHLB) hospital service area (HSA).

## **Results of Data Analysis**

#### **Compiled Secondary Data**

The tables and figures that follow show the specific values for the health need indicators used as part of the health need identification proces. The associated figures show rates for the county compared to the California state rates.

**Length of Life** 

Table 8: County length of life indicators compared to state benchmarks.

Indicators	Description	Merced (	California		
Early Life			_		
Infant Mortality	Number of all infant deaths (within 1 year), per 1,000 live births.	3.9	4.2	Merced: California:	3.9
Child Mortality	Number of deaths among children under age 18 per 100,000 population.	40.9	36.0	Merced: California:	40.9 36
Life Expectancy	Average number of years a person can expect to live.	79.2	81.7	Merced: California:	79.2 81.7
Overall					
Premature Age- Adjusted Mortality	Number of deaths among residents under age 75 per 100,000 population (ageadjusted).	342.3	268.4	Merced: California:	342.3 268.4
Premature Death	Years of potential life lost before age 75 per 100,000 population (age-adjusted).	6,593.0	5,253.1	Merced: California:	6,593 5,253.1
Stroke Mortality	Number of deaths due to stroke per 100,000 population.	36.5	41.2	Merced: California:	36.5 41.2
Chronic Lower Respiratory Disease Mortality	Number of deaths due to chronic lower respiratory disease per 100,000 population.	38.0	34.8	Merced: California:	38 34.8

Indicators	Description	Merced	California		
Diabetes Mortality	Number of deaths due to diabetes per 100,000 population.	26.7	24.1	Merced: California:	26.7 24.1
Heart Disease Mortality	Number of deaths due to heart disease per 100,000 population.	145.2	159.5	Merced: California:	145.2 159.5
Hypertension Mortality	Number of deaths due to hypertension per 100,000 population.	11.6	13.8	Merced: California:	11.6 13.8
Cancer, Liver, and Ki	idney Disease				
Cancer Mortality	Number of deaths due to cancer per 100,000 population.	138.3	152.9	Merced: California:	138.3 152.9
Liver Disease Mortality	Number of deaths due to liver disease per 100,000 population.	15.7	13.9	Merced: California:	15.7 13.9
Kidney Disease Mortality	Number of deaths due to kidney disease per 100,000 population.	10.6	9.7	Merced: California:	10.6
Intentional and Unit	ntentional Injuries				
Suicide Mortality	Number of deaths due to suicide per 100,000 population.	10.2	11.2	Merced: California:	10.2
Unintentional Injuries Mortality	Number of deaths due to unintentional injuries per 100,000 population.	50.1	35.7	Merced: California:	50.1 35.7
COVID-19					
COVID-19 Mortality	Number of deaths due to COVID-19 per 100,000 population.	287.0	215.6	Merced: California:	287 215.6
COVID-19 Case Fatality	Percentage of COVID-19 deaths per laboratory-confirmed COVID-19 cases.	1.3%	1.0%	Merced: California:	1.3%
Other					
Alzheimer's Disease Mortality	Number of deaths due to Alzheimer's disease per 100,000 population.	23.8	41.2	Merced: California:	23.8 41.2

Indicators	Description	Merced Califor		
Influenza and Pneumonia Mortality	Number of deaths due to influenza and pneumonia per 100,000 population.	16.0 10	Merced: California:	16 16

**Quality of Life**Table 9: County quality of life indicators compared to state benchmarks.

Indicators	Description	Merced C	alifornia		
<b>Chronic Disea</b>	se				
Diabetes Prevalence	Percentage of adults ages 20 and above with diagnosed diabetes.	13.1%	8.8%	Merced: California:	13.1% 8.8%
Low Birthweight	Percentage of live births with low birthweight (< 2,500 grams).	6.2%	6.9%	Merced: California:	6.2% 6.9%
HIV Prevalence	Number of people ages 13 years and older living with a diagnosis of human immunodeficiency virus (HIV) infection per 100,000 population.	136.0	395.9	Merced: California:	136 395.9
Disability	Percentage of the total civilian noninstitutionalized population with a disability	13.0%	10.6%	Merced: California:	13%
Mental Healtl	า				
Poor Mental Health Days	Average number of mentally unhealthy days reported in past 30 days (age-adjusted).	5.0	3.7	Merced: California:	5 3.7
Frequent Mental Distress	Percentage of adults reporting 14 or more days of poor mental health per month (age-adjusted).	15.5%	11.3%	Merced: California:	15.5% 11.3%
Poor Physical Health Days	Average number of physically unhealthy days reported in past 30 days (age-adjusted).	5.4	3.9	Merced: California:	5.4 3.9
Frequent Physical Distress	Percentage of adults reporting 14 or more days of poor physical health per month (age-adjusted).	16.7%	11.6%	Merced: California:	16.7% 11.6%
Poor or Fair Health	Percentage of adults reporting fair or poor health (age-adjusted).	28.4%	17.6%	Merced: California:	28.4%
Cancer					

Indicators	Description	Merced	California		
Colorectal Cancer Prevalence	Colon and rectum cancers per 100,000 population (age-adjusted).	38.1	34.8	Merced: California:	38.1 34.8
Breast Cancer Prevalence	Female in situ breast cancers per 100,000 female population (ageadjusted).	20.3	27.9	Merced: California:	20.3 27.9
Lung Cancer Prevalence	Lung and bronchus cancers per 100,000 population (age-adjusted).	46.7	40.9	Merced: California:	46.7
Prostate Cancer Prevalence	Prostate cancers per 100,000 male population (age-adjusted).	69.6	91.2	Merced: California:	69.6 91.2
COVID-19					
COVID-19 Cumulative Incidence	Number of laboratory-confirmed COVID-19 cases per 100,000 population.	22,658.5	21,335.2	Merced: California:	22,658.5 21,335.2
Other					
Asthma ED Rates	Emergency department visits due to asthma per 10,000 (ageadjusted).	599.0	422.0	Merced: California:	599 422
Asthma ED Rates for Children	Emergency department visits due to asthma among ages 5-17 per 10,000 population ages 5-17 (ageadjusted).	762.0	601.0	Merced: California:	762 601

## **Health Behavior**

Table 10: County health behavior indicators compared to state benchmarks.

Indicators	Description	Merced Ca	lifornia		
Excessive Drinking	Percentage of adults reporting binge or heavy drinking (ageadjusted).	17.0%	18.1%	Merced: California:	17% 18.1%
Drug Induced Death	Drug induced deaths per 100,000 (age-adjusted).	16.3	14.3	Merced: California:	16.3 14.3
Adult Obesity	Percentage of the adult population (age 20 and older) that reports a body mass index (BMI) greater than or equal to 30 kg/m2.	33.4%	24.3%	Merced: California:	33.4%

Indicators	Description	Merced	California		
Physical Inactivity	Percentage of adults ages 20 and over reporting no leisure-time physical activity.	27.4%	17.7%	Merced: California:	27.4% 17.7%
Limited Access to Healthy Foods	Percentage of population who are low-income and do not live close to a grocery store.	7.3%	3.3%	Merced: California:	7.3%
Food Environment Index	Index of factors that contribute to a healthy food environment, from 0 (worst) to 10 (best).	7.2	8.8	Merced: California:	7.2 8.8
Access to Exercise Opportunities	Percentage of population with adequate access to locations for physical activity.	69.6%	93.1%	Merced: California:	69.6% 93.1%
Chlamydia Incidence	Number of newly diagnosed chlamydia cases per 100,000 population.	601.8	585.3	Merced: California:	601.8 585.3
Teen Birth Rate	Number of births per 1,000 female population ages 15-19.	27.5	17.4	Merced: California:	27.5 17.4
Adult Smoking	Percentage of adults who are current smokers (age-adjusted).	16.4%	11.5%	Merced: California:	16.4% 11.5%

# **Clinical Care**

Table 11: County clinical care indicators compared to state benchmarks.

Indicators	Description	Merced California		
Primary Care Shortage Area	Presence of a primary care health professional shortage area within the county.	Yes	Merced: California:	Yes
Dental Care Shortage Area	Presence of a dental care health professional shortage area within the county.	Yes	Merced: California:	Yes
Mental Health Care Shortage Area	Presence of a mental health professional shortage area within the county.	Yes	Merced: California:	Yes
Medically Underserved Area	Presence of a medically underserved area within the county.	Yes	Merced: California:	Yes

Indicators	Description	Merced	California		
Mammography Screening	Percentage of female Medicare enrollees ages 65- 74 that received an annual mammography screening.	37.0%	36.0%	Merced: California:	37%
Dentists	Dentists per 100,000 population.	46.1	87.0	Merced: California:	87
Mental Health Providers	Mental health providers per 100,000 population.	188.7	373.4	Merced: California:	188.7 373.4
Psychiatry Providers	Psychiatry providers per 100,000 population.	1.5	13.5	Merced: California:	1.5
Specialty Care Providers	Specialty care providers (non- primary care physicians) per 100,000 population.	50.2	190.0	Merced: California:	50.2 190
Primary Care Providers	Primary care physicians per 100,000 population + other primary care providers per 100,000 population.	107.1	147.3	Merced: California:	107.1 147.3
Preventable Hospitalization	Preventable hospitalizations per 100,000 (age-sex-poverty adjusted)	1,152.5	948.3	Merced: California:	1,152.5 948.3
COVID-19					
COVID-19 Cumulative Full Vaccination Rate	Number of completed COVID-19 vaccinations per 100,000 population.	51,461.8	69,774.3	Merced: California:	51,461.8 69,774.3

# **Socio-Economic and Demographic Factors**

Table 12: County socio-economic and demographic factors indicators compared to state benchmarks.

Indicators	Description	Merced	California		
<b>Community Safety</b>	· '				
Homicide Rate	Number of deaths due to homicide per 100,000 population.	8.0	4.8	Merced: California:	4.8
Firearm Fatalities Rate	Number of deaths due to firearms per 100,000 population.	8.9	7.8	Merced: California:	8.9 7.8

Indicators	Description	Merced	California		
Violent Crime Rate	Number of reported violent crime offenses per 100,000 population.	555.3	420.9	Merced: California:	555.3 420.9
Juvenile Arrest Rate	Felony juvenile arrests per 1,000 juveniles	3.0	2.1	Merced: California:	2.1
Motor Vehicle Crash Death	Number of motor vehicle crash deaths per 100,000 population.	18.6	9.5	Merced: California:	18.6 9.5
Education					
Some College	Percentage of adults ages 25-44 with some post-secondary education.	48.6%	65.7%	Merced: California:	48.6% 65.7%
High School Completion	Percentage of adults ages 25 and over with a high school diploma or equivalent.	69.1%	83.3%	Merced: California:	69.1% 83.3%
Disconnected Youth	Percentage of teens and young adults ages 16-19 who are neither working nor in school.	8.3%	6.4%	Merced: California:	8.3%
Third Grade Reading Level	Average grade level performance for 3rd graders on English Language Arts standardized tests	2.7	2.9	Merced: California:	2.7
Third Grade Math Level	Average grade level performance for 3rd graders on math standardized tests	2.5	2.7	Merced: California:	2.5
Employment					
Unemployment	Percentage of population ages 16 and older unemployed but seeking work.	8.1%	4.0%	Merced: California:	8.1%
Family and Social S	upport				
Children in Single- Parent Households	Percentage of children that live in a household headed by single parent.	25.8%	22.5%	Merced: California:	25.8%
Social Associations	Number of membership associations per 10,000 population.	4.2	5.9	Merced: California:	<b>4.2 5.9</b>

Indicators	Description	Merced	California		
Residential Segregation (Non- White/White)	Index of dissimilarity where higher values indicate greater residential segregation between non-White and White county residents.	20.5	38.0	Merced: California:	20.5
Income					
Children Eligible for Free Lunch	Percentage of children enrolled in public schools that are eligible for free or reduced price lunch.	77.3%	59.4%	Merced: California:	77.3% 59.4%
Children in Poverty	Percentage of people under age 18 in poverty.	22.5%	15.6%	Merced: California:	22.5% 15.6%
Median Household Income	The income where half of households in a county earn more and half of households earn less.	\$59,733.0	\$80,423.0	Merced: California:	\$59,733 \$80,423
Uninsured Population under 64	Percentage of population under age 65 without health insurance.	9.0%	8.3%	Merced: California:	9% 8.3%
Income Inequality	Ratio of household income at the 80th percentile to income at the 20th percentile.	4.5	5.2	Merced: California:	4.5 5.2

# **Physical Environment**

Table 13: County physical environment indicators compared to state benchmarks.

Indicators	Description	Merced California		
Housing	-			
Severe Housing Problems	Percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, lack of kitchen facilities, or lack of plumbing facilities.	24.9% 26.4%	Merced: California:	24.9% 26.4%
Severe Housing Cost Burden	Percentage of households that spend 50% or more of their household income on housing.	16.8% 19.7%	Merced: California:	16.8%
Homeownership	Percentage of occupied housing units that are owned.	52.2% 54.8%	Merced: California:	52.2% 54.8%

Indicators	Description	Merced	California		
Homelessness Rate	Number of homeless individuals per 100,000 population.	234.4	411.2	Merced: California:	234.4 411.2
Transit					
Households with no Vehicle Available	Percentage of occupied housing units that have no vehicles available.	6.9%	7.1%	Merced: California:	6.9% 7.1%
Long Commute - Driving Alone	Among workers who commute in their car alone, the percentage that commute more than 30 minutes.	30.8%	42.2%	Merced: California:	30.8%
Access to Public Transit	Percentage of population living near a fixed public transportation stop	71.9%	69.6%	Merced: California:	71.9%
Air and Water Qua	lity				
Pollution Burden Percent	Percentage of population living in a census tract with a CalEnviroscreen 3.0 pollution burden score percentile of 50 or greater	87.5%	51.6%	Merced: California:	87.5% 51.6%
Air Pollution - Particulate Matter	Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5).	12.0	8.1	Merced: California:	12 8.1
Drinking Water Violations	Presence of health-related drinking water violations in the county.	Yes		Merced: California:	Yes

## **CHNA Methods and Processes**

Two related models were foundational in this CHNA. The first is a conceptual model that expresses the theoretical understanding of community health used in the analysis. This understanding is important because it provides the framework underpinning the collection of primary and secondary data. It is the tool used to ensure that the results are based on a rigorous understanding of those factors that influence the health of a community. The second model is a process model that describes the various stages of the analysis. It is the tool that ensures that the resulting analysis is based on a tight integration of community voice and secondary data and that the analysis meets federal regulations for conducting hospital CHNAs.

## **Conceptual Model**

The conceptual model used in this needs assessment is shown in Figure 5. This model organizes populations' individual health-related characteristics in terms of how they relate to up- or downstream health and health-disparities factors. In this model, health outcomes (quality and length of life) are

understood to result from the influence of health factors describing interrelated individual, environmental, and community characteristics, which in turn are influenced by underlying policies and programs.

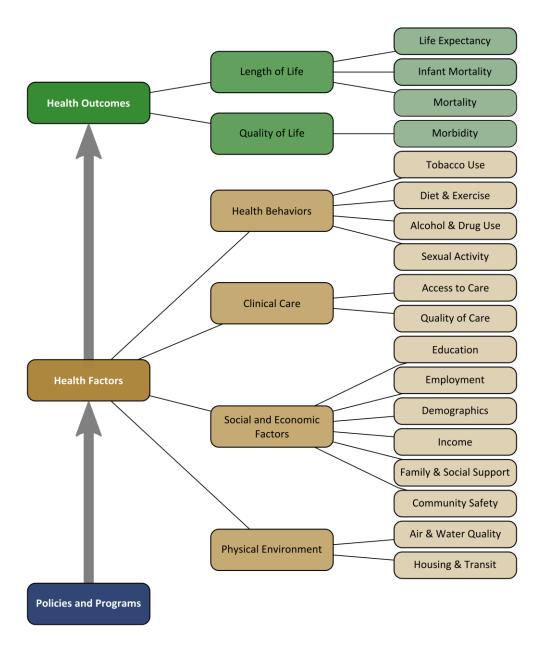


Figure 5: Community Health Assessment Conceptual Model as modified from the County Health Rankings Model, Robert Wood Johnson Foundation, and University of Wisconsin, 2015.

This model was used to guide the selection of secondary indicators in this analysis as well as to express in general how these upstream health factors lead to the downstream health outcomes. It also suggests that poor health outcomes within the service area can be improved through policies and programs that address the health factors contributing to them. This conceptual model is a slightly modified version of the County Health Rankings Model used by the Robert Wood Johnson Foundation. It was primarily

altered by adding a "Demographics" category to the "Social and Economic Factors" in recognition of the influence of demographic characteristics on health outcomes.

To generate the list of secondary indicators used in the assessment, each conceptual model category was reviewed to identify potential indicators that could be used to fully represent the category. The results of this discussion were then used to guide secondary data collection.

### **Process Model**

Figure 6 outlines the data collection and analysis stages of this process. The project began by confirming the HSA for MHLB for which the CHNA would be conducted. Primary data collection included key informant interviews and focus-groups with community health experts and residents. Initial key informant interviews were used to identify areas or population subgroups within the county experiencing health disparities.

Overall primary and secondary data were integrated to identify significant health needs for the HSA. Significant health needs were then prioritized based on analysis of the primary data. Finally, information was collected regarding the resources available within the community to potentially meet the identified health needs. An evaluation of the impact of the hospital's prior efforts was obtained from hospital representatives and any written comments on the previous CHNA were gathered and included in the report.

Greater detail on the collection and processing of the secondary and primary data is given in the next two sections. This is followed by a more detailed description of the methodology utilized during the main analytical stages of the process.

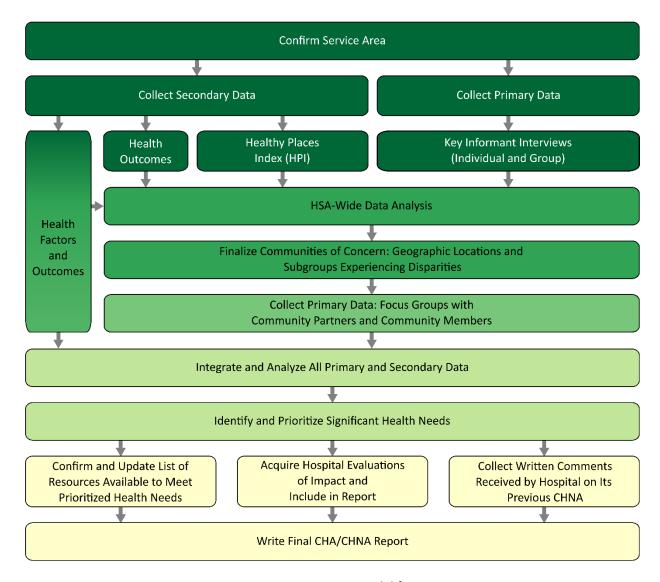


Figure 6: CHNA process model for MHLB.

## **Primary Data Collection and Processing**

## **Primary Data Collection**

Input from the community served by MHLB was collected through two main mechanisms. First, key informant interviews were conducted with community health experts and area service providers (i.e., members of social-service nonprofit organizations and related healthcare organizations). These interviews occurred in both one-on-one and in group interview settings. Second, focus groups were conducted with community residents that were identified as populations experiencing disparities.

All participants were given an informed consent form prior to their participation, which provided information about the project, asked for permission to record the interview, and listed the potential benefits and risks for involvement in the interview. All interview data were collected through note taking and, in some instances, recording.

## **Key Informant Results**

Primary data collection with key informants included two phases. First, phase one began by interviewing area-wide service providers with knowledge of the service area, including input from the designated public health department. Data from these area-wide informants, coupled with socio-demographic data, was used to identify additional key informants for the assessment that were included in phase two.

As a part of the interview process, all key informants were asked to identify vulnerable populations. The interviewer asked each participant to verbally explain what vulnerable populations existed in the county. As needed for a visual aid, key informants were provided a map of the HSA to directly point to the geographic locations of these vulnerable communities. Additional key informant interviews were focused on the geographic locations and/or subgroups identified in the earlier phase.

Table 14 contains a listing of community health experts, or key informants, that contributed input to the CHNA. The table describes the name of the represented organization, the number of participants and area of expertise, the populations served by the organization, and the date of the interview.

Table 14: Key Informant List

Organization	Date	Number of Participants	Area of Expertise	Populations Served
Memorial Hospital Los Banos	01/12/2022	2	Acute care hospital	Areas of Merced County
Los Banos Unified School District	01/12/2022	1	Youth education and adult learners	Los Banos
Gustine Unified School District	01/18/2022	1	Youth education and adult learners	Gustine
Merced County Department of Public Health	01/18/2022	2	Public Health	Merced County
Merced County Behavioral Health and Recovery Services	01/19/2022	1	Mental health, substance use, behavioral health	Medi-Cal and indigent in Merced County
Golden Valley Health Centers	01/21/2022	2	Medical and dental services	Low income; homeless
First 5 Merced County	01/24/2022	1	Child development	Merced County
Community Foundation of Merced County	01/25/2022	1	Community investment	Merced County

## Key Informant Interview Guide

The following questions served as the interview guides for key informant interviews.

### 2022 CHNA Group/Key Informant Interview Protocol

#### 1. BACKGROUND

- a) Please tell me about your current role and the organization you work for?
  - i. Probe for:

- 1. Public health (division or unit)
- 2. Hospital health system
- 3. Local non-profit
- 4. Community member
- b. How would you define the community (ies) you or your organization serves?
  - Probe for:
    - 1. Specific geographic areas?
    - 2. Specific populations served?
    - 3. Who? Where? Racial/ethnic make-up, physical environment (urban/rural, large/small)

### 2. CHARACTERISTICS OF A HEALTHY COMMUNITY

- a. In your view, what does a healthy community look like?
  - i. Probe for:
    - 1. Social factors
    - 2. Economic factors
    - 3. Clinical care
    - 4. Physical/built environment (food environment, green spaces)
    - 5. Neighborhood safety

#### 3. **HEALTH ISSUES**

- a. What would you say are the biggest health needs in the community?
  - i. Probe for:
    - 1. How has the presence of COVID-19 impacted these health needs?
- b. INSERT MAP exercise: Please use the map provided to help our team understand where communities that experience the greatest health disparities live?
  - i. Probe for:
    - 1. What specific geographic locations struggle with health issues the most?
    - 2. What specific groups of community members experience health issues the most?

### 4. CHALLENGES/BARRIERS

- Looking through the lens of equity, what are the challenges (barriers or drivers) to being healthy for the community as a whole?
  - i. Do these inequities exist among certain population groups?
  - ii. Probe for:
    - 1. Health Behaviors (maladaptive, coping)
    - 2. Social factors (social connections, family connectedness, relationship with law enforcement)
    - 3. Economic factors (income, access to jobs, affordable housing, affordable food)
    - Clinical Care factors (access to primary care, secondary care, quality of care)
    - 5. Physical (Built) environment (safe and healthy housing, walkable communities, safe parks)

## 5. **SOLUTIONS**

- a. What solutions are needed to address the health needs and or challenges mentioned?
  - i. Probe for:
    - 1. Policies
    - 2. Care coordination
    - 3. Access to care

4. Environmental change

#### 6. **PRIORITY**

a. Which would you say are currently the most important or urgent health issues or challenges to address (at least 3 to 5) in order to improve the health of the community?

#### 7. **RESOURCES**

- a. What resources exist in the community to help people live healthy lives?
  - i. Probe for:
    - 1. Barriers to accessing these resources.
    - 2. New resources that have been created since 2019
    - 3. New partnerships/projects/funding

## 8. **PARTICIPANT DRIVEN SAMPLING:**

- a. What other people, groups or organizations would you recommend we speak to about the health of the community?
  - i. Name 3 types of service providers that you would suggest we include in this work?
  - ii. Name 3 types of community members that you would recommend we speak to in this work?
- 9. OPEN: Is there anything else you would like to share with our team about the health of the community?

## Focus Group Results

Focus group interviews were conducted with community members or service providers living or working in geographic areas of the service area identified as locations or populations experiencing a disparate amount of poor socioeconomic conditions and poor health outcomes. Recruitment consisted of referrals from designated service providers representing vulnerable populations, as well as direct outreach to special population groups.

Table 15 contains a listing of community resident groups that contributed input to the CHNA. The table describes the hosting organization of the focus group, the date it occurred, the total number of participants, and population represented for focus group members.

Table 15: Focus Group List

Hosting Organization	Date	Number of Participants	Populations Represented
Alliance for Community Transformation	02/11/2022	1	LGBTQ in Merced County
Boys and Girls Club of Merced	02/15/2022	3	Underserved; youth
United Way of Merced County - Cultiva La Salud	02/22/2022	10	Spanish speaking from Dos Palos, Los Banos and Gustine
Merced Lao Family Community	02/25/2022	4	Hmong

### Focus Group Interview Guide

The following questions served as the interview guides for focus group interviews.

## **2022 CHNA Focus Group Interview Protocol**

- 1. Let's start by introducing ourselves. Please tell us your name, the town you live in, and one thing that you are proud of about your community.
- 2. We would like to hear about the community where you live. Tell us in a few words what you think of as "your community". What it is like to live in your community?
- 3. What do you think that a "healthy environment" is?
- 4. When thinking about your community based on the healthy environment you just described, what are the biggest health needs in your community?
- 5. Are needs more prevalent in a certain geographic area, or within a certain group of the community?
- 6. How has the presence of COVID-19 impacted these health needs?
- 7. What are the challenges or barriers to being healthy in your community?
- 8. What are some solutions that can help solve the barriers and challenges you talked about?
- 9. Based on what we have discussed so far, what are currently the most important or urgent top 3 health issues or challenges to address to improve the health of the community?
- 10. Are these needs that have recently come up or have they been around for a long time?
- 11. What are resources that exist in the community that help your community live healthy lives and address the health issues and inequity we have discussed?
- 12. Is there anything else you would like to share with our team about the health of the community?

### **Primary Data Processing**

Key informant and focus group data were analyzed using qualitative analytic software. Content analysis included thematic coding to potential health need categories, the identification of special populations experiencing health issues, and the identification of resources. In some instances, data were coded in accordance to the interview question guide. Results were aggregated to inform the determination of prioritized significant health needs.

## **Secondary Data Collection and Processing**

We use "secondary data" to refer to those quantitative variables used in this analysis that were obtained from third party sources. Secondary data were used to support the identification of health needs within the MHLB HSA. This section details the data sources and processing steps used to obtain the secondary data used for this analysis.

## Significant Health Need Identification Dataset

The main set of data used in the CHNA includes the health factor and health outcome indicators used to identify significant health needs. The selection of these indicators was guided by the previously identified conceptual model. Table 16 lists these indicators, their sources, the years they were measured, and the health-related characteristics from the conceptual model they are primarily used to represent.

Table 16: Health factor and health outcome indicators used in health need identification.

Conceptual Model Alignment		Indicator	Data Source	Time Period	
Health Outcomes	Length of Life	Infant Mortality	Infant Mortality	County Health Rankings	2013 - 2019

Conceptual Model Alignment		Indicator	Data Source	Time Period
		Child Mortality	County Health Rankings	2016 - 2019
		Life Expectancy	County Health Rankings	2017 - 2019
		Premature Age- Adjusted Mortality	County Health Rankings	2017 - 2019
		Premature Death	County Health Rankings	2017 - 2019
		Stroke Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
		Chronic Lower Respiratory	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
		Disease Mortality Diabetes Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
		Heart Disease Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
	Life Expectancy	Hypertension Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
		Cancer Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
		Liver Disease Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
		Kidney Disease Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
		Suicide Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
		Unintentional Injuries Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
		COVID-19 Mortality	CDPH COVID-19 Time- Series Metrics by County and State	Collected on 2022- 02-28
		COVID-19 Case Fatality	CDPH COVID-19 Time- Series Metrics by County and State	Collected on 2022- 02-28
		Alzheimer's Disease Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
		Influenza and Pneumonia Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
Quality of Life	Morbidity	Diabetes Prevalence	County Health Rankings	2017
Quality of Life	ויוטו טועונץ	Low Birthweight	County Health Rankings	2013 - 2019

Conceptual Model Alignmen	t	Indicator	Data Source	Time Period
		HIV Prevalence	County Health Rankings	2018
		Disability	2019 American Community Survey 5 year estimate variable S1810 C03 001E	2015 - 2019
		Poor Mental Health Days	County Health Rankings	2018
		Frequent Mental Distress	County Health Rankings	2018
		Poor Physical Health Days	County Health Rankings	2018
		Frequent Physical Distress	County Health Rankings	2018
		Poor or Fair Health	County Health Rankings	2018
		Colorectal Cancer Prevalence	California Cancer Registry	2013 - 2017
		Breast Cancer Prevalence	California Cancer Registry	2013 - 2017
		Lung Cancer Prevalence	California Cancer Registry	2013 - 2017
		Prostate Cancer Prevalence	California Cancer Registry	2013 - 2017
		COVID-19	CDPH COVID-19 Time-	Collected
		Cumulative	Series Metrics by County	on 2022-
		Incidence	and State	02-28
		Asthma ED Rates	Tracking California	2018
		Asthma ED Rates for Children	Tracking California	2018
	Alcohol and	Excessive Drinking	County Health Rankings	2018
	Drug Use	Drug Induced Death	CDPH 2021 County Health Status Profiles	2017 - 2019
		Adult Obesity	County Health Rankings	2017
		Physical Inactivity	County Health Rankings	2017
	Diet and	Limited Access to Healthy Foods	County Health Rankings	2015
Health Factors Health Behavior	Exercise	Food Environment Index	County Health Rankings	2015 & 2018
		Access to Exercise Opportunities	County Health Rankings	2010 & 2019
	Sexual Activity	Chlamydia Incidence	County Health Rankings	2018
		Teen Birth Rate	County Health Rankings	2013 - 2019
	Tobacco Use	Adult Smoking	County Health Rankings	2018

Conceptual Model Alignment		Indicator	Data Source	Time Period
			U.S. Heath Resources and Services Administration	2021
		Dental Care Shortage Area	U.S. Heath Resources and Services Administration	2021
		Mental Health Care Shortage Area	U.S. Heath Resources and Services Administration	2021
		Medically Underserved Area	U.S. Heath Resources and Services Administration	2021
	Access to Care	Mammography Screening	County Health Rankings	2018
		Dentists	County Health Rankings	2019
Clinical Care		Mental Health Providers	County Health Rankings	2020
Cillical Care		Psychiatry Providers	County Health Rankings	2020
		Specialty Care Providers	County Health Rankings	2020
		Primary Care Providers	County Health Rankings	2018; 2020
	Quality Care	Preventable Hospitalization	California Office of Statewide Health Planning and Development Prevention Quality Indicators for California	2019
		COVID-19 Cumulative Full Vaccination Rate	CDPH COVID-19 Vaccine Progress Dashboard Data	Collected on 2022- 02-28
		Homicide Rate	County Health Rankings	2013 - 2019
		Firearm Fatalities Rate	County Health Rankings	2015 - 2019
	nographic	Violent Crime Rate	County Health Rankings	2014 & 2016
Socio-Economi and Demographic Factors		Juvenile Arrest Rate	Criminal Justice Data: Arrests, OpenJustice, California Department of Justice	2015 - 2019
		Motor Vehicle Crash Death	County Health Rankings	2013 - 2019
	Education	Some College	County Health Rankings	2015 - 2019
	Education	High School Completion	County Health Rankings	2015 - 2019

Conceptual Model Alignmer	t	Indicator	Data Source	Time Period
		Disconnected Youth	County Health Rankings	2015 - 2019
		Third Grade Reading Level	County Health Rankings	2018
		Third Grade Math Level	County Health Rankings	2018
	Employment	Unemployment	County Health Rankings	2019
	, .	Children in Single- Parent Households	County Health Rankings	2015 - 2019
	Family and	Social Associations	County Health Rankings	2018
	Social Support	Residential Segregation (Non-White/White)	County Health Rankings	2015 - 2019
		Children Eligible for Free Lunch	County Health Rankings	2018 - 2019
		Children in Poverty	County Health Rankings	2019
	Incomo	Median Household Income	County Health Rankings	2019
Income	income	Uninsured Population under 64	County Health Rankings	2018
		Income Inequality	County Health Rankings	2015 - 2019
		Severe Housing Problems	County Health Rankings	2013 - 2017
		Severe Housing Cost Burden	County Health Rankings	2015 - 2019
		Homeownership	County Health Rankings	2015 - 2019
Physical Housing and Environment Transit	Housing and	Homelessness Rate	US Dept. of Housing and Urban Development 2020 Annual Homeless Assessment Report	2020
	1	Households with no Vehicle Available	2019 American Community Survey 5-year estimate variable DP04_0058PE	2015 - 2019
		Long Commute - Driving Alone	County Health Rankings	2015 - 2019
		Access to Public Transit	OpenMobilityData, Transitland, TransitWiki.org, Santa Ynez Valley Transit; US Census Bureau	2021; 2020

Conceptual	Model Alignment	Indicator	Data Source	Time Period
	Air and	Pollution Burden Percent	California Office of Environmental Health Hazard Assessment	2018
Water Quality	Air Pollution - Particulate Matter	County Health Rankings	2016	
		Drinking Water Violations	County Health Rankings	2019

The following sections give further details about the sources of these data and any processing applied to prepare them for use in the analysis.

# County Health Rankings Data

All indicators listed with County Health Rankings (CHR) as their source were obtained from the 2021 County Health Rankings<sup>17</sup> dataset. This was the most common source of data, with 52 associated indicators included in the analysis. Indicators were collected at both the county and state levels. County-level indicators were used to represent the health factors and health outcomes in the service area. State-level indicators were collected to be used as benchmarks for comparison purposes. All variables included in the CHR dataset were obtained from other data providers. The original data providers for each CHR variable are given in Table 17.

Table 17: Sources and time periods for indicators obtained from County Health Rankings.

CHR Indicator	Time Period	Data Source
Infant Mortality	2013 -	National Contor for Health Statistics - Mortality Files
Infant Mortality	2019	National Center for Health Statistics - Mortality Files
Child Mortality	2016 -	National Center for Health Statistics - Mortality Files
Cilia Mortanty	2019	National Center for Health Statistics - Mortality Files
Life Expectancy	2017 -	National Center for Health Statistics - Mortality Files
Life Expectancy	2019	National Center for Health Statistics - Mortality Flies
Premature Age-Adjusted	2017 -	National Center for Health Statistics - Mortality Files
Mortality	2019	National Center for Health Statistics Mortality Files
Premature Death	2017 -	National Center for Health Statistics - Mortality Files
Trematare Beath	2019	<i>,</i>
Diabetes Prevalence	2017	United States Diabetes Surveillance System
Low Birthweight	2013 -	National Center for Health Statistics - Natality files
	2019	•
HIV Prevalence	2018	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB
	2010	Prevention
Poor Mental Health Days	2018	Behavioral Risk Factor Surveillance System

<sup>&</sup>lt;sup>17</sup> University of Wisconsin Population Health Institute. 2021. County Health Rankings State Report 2021. Retrieved 6 May 2021 from https://www.countyhealthrankings.org/app/oregon/2021/downloads and https://www.countyhealthrankings.org/app/california/2021/downloads.

CHR Indicator	Time Period	Data Source
Frequent Mental Distress Poor Physical Health Days	2018 2018	Behavioral Risk Factor Surveillance System Behavioral Risk Factor Surveillance System
Frequent Physical Distress	2018	Behavioral Risk Factor Surveillance System
Poor or Fair Health	2018	Behavioral Risk Factor Surveillance System
Excessive Drinking	2018	Behavioral Risk Factor Surveillance System
Adult Obesity	2017	United States Diabetes Surveillance System
Physical Inactivity	2017	United States Diabetes Surveillance System
Limited Access to Healthy Foods	2015	USDA Food Environment Atlas
Food Environment Index	2015 & 2018	USDA Food Environment Atlas, Map the Meal Gap from Feeding America
Access to Exercise	2010 &	Business Analyst, Delorme map data, ESRI, & US Census
Opportunities	2019	Tigerline Files
Chlamydia Incidence	2018	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
Teen Birth Rate	2013 - 2019	National Center for Health Statistics - Natality files
Adult Smoking	2018	Behavioral Risk Factor Surveillance System
Mammography Screening	2018	Mapping Medicare Disparities Tool
Dentists	2019	Area Health Resource File/National Provider Identification file
Mental Health Providers	2020	CMS, National Provider Identification
Psychiatry Providers	2020	Area Health Resource File
Specialty Care Providers	2020	Area Health Resource File
Primary Care Providers	2018; 2020	Area Health Resource File/American Medical Association; CMS, National Provider Identification
Homicide Rate	2013 - 2019	National Center for Health Statistics - Mortality Files
Firearm Fatalities Rate	2015 - 2019	National Center for Health Statistics - Mortality Files
Violent Crime Rate	2014 & 2016	Uniform Crime Reporting - FBI
Motor Vehicle Crash Death	2013 - 2019	National Center for Health Statistics - Mortality Files
Some College	2015 - 2019	American Community Survey, 5-year estimates
High School Completion	2015 - 2019	American Community Survey, 5-year estimates
Disconnected Youth	2015 - 2019	American Community Survey, 5-year estimates
Third Grade Reading Level	2018	Stanford Education Data Archive
Third Grade Math Level	2018	Stanford Education Data Archive
Unemployment	2019	Bureau of Labor Statistics
Children in Single-Parent Households	2015 - 2019	American Community Survey, 5-year estimates

CHR Indicator	Time Period	Data Source
Social Associations	2018	County Business Patterns
Residential Segregation (Non-White/White)	2015 - 2019	American Community Survey, 5-year estimates
Children Eligible for Free Lunch	2018 - 2019	National Center for Education Statistics
Children in Poverty	2019	Small Area Income and Poverty Estimates
Median Household Income	2019	Small Area Income and Poverty Estimates
Uninsured Population under 64	2018	Small Area Health Insurance Estimates
Income Inequality	2015 - 2019	American Community Survey, 5-year estimates
Severe Housing Problems	2013 - 2017	Comprehensive Housing Affordability Strategy (CHAS) data
Severe Housing Cost Burden	2015 - 2019	American Community Survey, 5-year estimates
Homeownership	2015 - 2019	American Community Survey, 5-year estimates
Long Commute - Driving Alone	2015 - 2019	American Community Survey, 5-year estimates
Air Pollution - Particulate Matter	2016	Environmental Public Health Tracking Network
Drinking Water Violations	2019	Safe Drinking Water Information System

The provider rates for the primary care physicians and other primary care providers indicators obtained from CHR were summed to create the final primary care provider indicator used in this analysis.

## California Department of Public Health

## By-Cause Mortality Data

By-cause mortality data were obtained at the county and state level from the CDPH Cal-ViDa<sup>18</sup> online data query system for the years 2015-2019. Empirically bayes smoothed rates (EBRs) were calculated for each mortality indicator using the total county population figure reported in the 2017 American Community Survey 5-year Estimates table B03002. Data for 2017 were used because this represented the central year of the 2015–2019 range of years for which CDPH data were collected. The population data for 2017 were multiplied by five to match the five years of mortality data used to calculate smoothed rates. The smoothed mortality rates were then multiplied by 100,000 so that the final rates represented deaths per 100,000 people.

CDPH masks the actual number of deaths that occur in a county for a given year and cause if there are between 1 and 10 total deaths recorded. Because of this, the following process was used to estimate the total number of deaths for counties whose actual values were masked. First, mortality rates for each cause and year were calculated for the state. The differences between the by-cause mortality for the

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<sup>&</sup>lt;sup>18</sup> State of California, Department of Public Health. 2021. California Vital Data (Cal-ViDa), Death Query. Retrieved 1 Jun 2021 from https://cal-vida.cdph.ca.gov/.

state and the total by-cause mortality reported across all counties in the state for each cause and year were also calculated.

Next, we applied the state by-cause mortality rate for each cause and year to estimate mortality at the county level if the reported value was masked. This was done by multiplying the cause/year appropriate state-level mortality rate by the 2017 populations of counties with masked values. Resulting estimates that were less than 1 or greater than 10 were set to 1 and 10 respectively to match the known CDPH masking criteria.

The total number of deaths estimated for counties that had masked values for each year/cause was then compared to the difference between the reported total county and state deaths for the corresponding year/cause. If the number of estimated county deaths exceeded this difference, county estimates were further adjusted. This was done by iteratively ranking county estimates for a given year/cause, then from highest to lowest, reducing the estimates by 1 until they reached a minimum of 1 death. This continued until the estimated deaths for counties with masked values equaled the difference between the state and total reported county values.

#### COVID-19 Data

Data on the cumulative number of cases and deaths<sup>19</sup> and completed vaccinations<sup>20</sup> for COVID-19 were used to calculate mortality, case-fatality, incidence, and vaccination rates. County mortality, incidence, and vaccination rates were calculated by dividing each of the respective values by the total population variable from the 2019 American Community Survey 5-year estimates table B01001, and then multiplying the resulting value by 100,000 to create rates per 100,000. Case-fatality rates were calculated by dividing COVID-19 mortality by the total number of cases, then multiplying by 100, representing the percentage of cases that ended in death.

## **Drug-Induced Deaths Data**

Drug-induced death rates were obtained from Table 19 of the 2021 County Health Status Profiles<sup>21</sup> and report age-adjusted deaths per 100,000.

#### U.S. Heath Resources and Services Administration

Indicators related to the availability of healthcare providers were obtained from the Health Resources and Services Administration<sup>22</sup> (HRSA). These included Dental, Mental Health, and Primary Care Health

29 04.16.2021.xlsx.

<sup>&</sup>lt;sup>19</sup> State of California, Department of Public Health. 2021. Statewide COVID-19 Cases Deaths Tests. Retrieved February 28 2022 from https://data.chhs.ca.gov/dataset/f333528b-4d38-4814-bebb-

<sup>12</sup>db1f10f535/resource/046cdd2b-31e5-4d34-9ed3-b48cdbc4be7a/download/covid19cases test.csv.

<sup>&</sup>lt;sup>20</sup> State of California, Department of Public Health. 2021. COVID-19 Vaccine Progress Dashboard Data . Retrieved February 28 2022 from https://data.chhs.ca.gov/dataset/e283ee5a-cf18-4f20-a92c-

ee94a2866ccd/resource/130d7ba2-b6eb-438d-a412-741bde207e1c/download/covid19vaccinesbycounty.csv.

<sup>&</sup>lt;sup>21</sup> State of California, Department of Public Health, Vital Records Data and Statistics. 2021. County Health Status Profiles 2021: CHSP 2021 Tables 1-29. Spreadsheet. Retrieved 21 Jul 2021 from https://www.cdph.ca.gov/Programs/CHSI/CDPH%20Document%20Library/CHSP 2021 Tables 1-

<sup>&</sup>lt;sup>22</sup> US Health Resources & Services Administration. 2021. Area Health Resources Files and Shortage Areas. Retrieved on 3 Feb 2021 from https://data.hrsa.gov/data/download.

Professional Shortage Areas and Medically Underserved Areas/Populations. They also included the number of specialty care providers and psychiatrists per 100,000 residents, derived from the county-level Area Health Resource Files.

## Health Professional Shortage Areas

The health professional shortage area and medically underserved area data were not provided at the county level. Rather, they show all areas in the state that were designated as shortage areas. These areas could include a portion of a county or an entire county, or they could span multiple counties. To develop measures at the county level to match the other health-factor and health-outcome indicators used in health need identification, these shortage areas were compared to the boundaries of each county in the state. Counties that were partially or entirely covered by a shortage area were noted.

## Psychiatry and Specialty Care Providers

The HRSA's Area Health Resource Files provide information on physicians and allied healthcare providers for U.S. counties. This information was used to determine the rate of specialty care providers and the rate of psychiatrists for each county and for the state. For the purposes of this analysis, a specialty care provider was defined as a physician who was not defined by the HRSA as a primary care provider. This was found by subtracting the total number of primary care physicians (both MDs and DOs, primary care, patient care, and non-federal, excluding hospital residents and those 75 years of age or older) from the total number of physicians (both MDs and DOs, patient care, non-federal) in 2018. This number was then divided by the 2018 total population given in the 2018 American Community Survey 5-year Estimates table B03002, and then multiplied by 100,000 to give the total number of specialty care physicians per 100,000 residents.

The total of specialty care physicians in each county was summed to find the total specialty care physicians in the state, and state rates were calculated following the same approach as used for county rates. This same process was also used to calculate the number of psychiatrists per 100,000 for each county and the state using the number of total patient care, non-federal psychiatrists from the Area Health Resource Files. It should be noted that psychiatrists are included in the list of specialty care physicians, so that indicator represents a subset of specialty care providers rather than a separate group.

### California Cancer Registry

Data obtained from the California Cancer Registry<sup>23</sup> includes age-adjusted incidence rates for colon and rectum, female breast, lung and bronchus, and prostate cancer sites for counties and the state. Reported rates were based on data from 2013 to 2017, and report cases per 100,000. For low-population counties, rates were calculated for a group of counties rather than for individual counties. That group rate was used in this report to represent incidence rates for each individual county in the group.

<sup>&</sup>lt;sup>23</sup> California Cancer Registry. 2021. Age-Adjusted Invasive Cancer Incidence Rates in California. Retrieved on 22 Jan 2021 from https://www.cancer-rates.info/ca/.

## Tracking California

Data on emergency department visits rates for all ages as well as children aged 5 to 17 were obtained from Tracking California. <sup>24</sup> These data reported age-adjusted rates per 10,000. They were multiplied by 100 in this analysis to convert them to rates per 100,000 to make them more comparable to the standard used for other rate indicators.

#### US Census Bureau

Data from the US Census Bureau was used for two additional indicators: the percentage of households with no vehicles available (table DPO4, variable 0058PE), and the percentage of the civilian non-institutionalized population with some disability (table S1810, variable C03\_001E). Values for both of these variables were obtained from the 2019 American Community Survey 5-year Estimates dataset.

## California Office of Environmental Health Hazard Assessment

Data used to calculate the pollution burden percent indicator were obtained from the CalEnviroscreen  $3.0^{25}$  dataset produced by the California Office of Environmental Health Hazard Assessment. This indicator reports the percentage of the population within a given county, or within the state as a whole, that live in a US Census tract with a CalEnviroscreen 3.0 Pollution Burden score in the 50th percentile or higher. Data on total population came from Table B03002 from the 2019 American Community Survey 5-year Estimates dataset.

## California Department of Health Care Access and Information

Data on preventable hospitalizations were obtained from the California Department of Health Care Access and Information (formerly Office of Statewide Health Planning and Development) Prevention Quality Indicators. <sup>26</sup> These data are reported as risk-adjusted rates per 100,000.

## California Department of Justice

Data reporting the total number of juvenile felony arrests was obtained from the California Department of Justice. <sup>27</sup> This indicator reports the rate of felony arrests per 1,000 juveniles under the age of 18. It was calculated by dividing the total number of juvenile felony arrests for each county or state from 2015 - 2019 by the total population under 18 as reported in Table B01001 in the 2017 American Community Survey 5-year Estimates program. Population data from 2017 were used as this was the central year of the period over which juvenile felony arrest data were obtained. Population figures from 2017 were multiplied by 5 to match the years of arrest data used. Empirical bayes smoothed rates were calculated

<sup>&</sup>lt;sup>24</sup> Tracking California, Public Health Institute. 2021. Asthma Related Emergency Department & Hospitalization data. Retrieved on 24 Jun 2021 from www.trackingcalifornia.org/asthma/query.

<sup>&</sup>lt;sup>25</sup> California Office of Environmental Health Hazard Assessment. 2018. CalEnviroScreen 3.0. Retrieved on 22 Jan 2021 from https://oehha.ca.gov/calenviroscreen/maps-data.

<sup>&</sup>lt;sup>26</sup> Office of Statewide Health Planning and Development. 2021. Prevention Quality Indicators (PQI) for California. Data files for Statewide and County. Retrieved 12 Mar 2021 from https://oshpd.ca.gov/data-and-reports/healthcare-quality/ahrq-quality-indicators/.

<sup>&</sup>lt;sup>27</sup> California Department of Justice, OpenJustice. 2021. Criminal Justice Data: Arrests. Retrieved 17 Jun 2021 from https://data-openjustice.doj.ca.gov/sites/default/files/dataset/2020-07/OnlineArrestData1980-2019.csv.

to increase the reliability of rates calculated for small counties. Finally, juvenile felony arrest rates were also calculated for Black, White, and Hispanic populations following the same manner, but using input population data from 2017 American Community Survey 5-year Estimates Tables B01001H, B01001B, and B01001I respectively.

## US Department of Housing and Urban Development

Data from the US Department of Housing and Urban Development's 2020 Annual Homeless Assessment Report<sup>28</sup> were used to calculate homelessness rates for the counties and state. This data reported point-in-time (PIT) homelessness estimates for individual Continuum of Care (CoC) organizations across the state. Each CoC works within a defined geographic area, which could be a group of counties, an individual county, or a portion of a county.

To calculate county rates, CoC were first related to county boundaries. Rates for CoC that covered single counties were calculated by dividing the CoC PIT estimate by the county population. If a given county was covered by multiple CoC, their PIT were totaled and then divided by the total county population to calculate the rate. When a single CoC covered multiple counties, the CoC PIT was divided by the total of all included county populations, and the resulting rate was applied to each individual county.

Population data came from the total population value reported in Table B03002 from the 2019 American Community Survey 5-year Estimates dataset. Derived rates were multiplied by 100,000 to report rates per 100,000.

## **Proximity to Transit Stops**

The proximity to transit stops variable reports the percent of county and state population that lives in a US Census block located within 1/4 mile of a fixed transit stop. Two sets of information were needed in order to calculate this indicator: total population at the Census block level, and the location of transit stops. Likely due to delays in data releases stemming from the COVID-19 pandemic, the most recent Census block population data available at the time of the analysis was from the 2010 Decennial Census, <sup>29</sup> so this was the data used to represent the distribution of population for this indicator.

Transit stop data were identified first by using tools in the TidyTransit<sup>30</sup> library for the R statistical programming language.<sup>31</sup> This was used to identify transit providers with stops located within 100 miles of the state boundaries. A search for transit stops for these agencies, as well as all other transit agencies in the state, was conducted by reviewing three main online sources: OpenMobilityData,<sup>32</sup> Transitland,<sup>33</sup>

<sup>&</sup>lt;sup>28</sup> US Department of Housing and Urban Development. 2021. 2020 Annual Homeless Assessment Report: 2007 - 2020 Point-in-Time Estimates by CoC. Retrieved 14 Jul 2021 from

https://www.huduser.gov/portal/sites/default/files/xls/2007-2020-PIT-Estimates-by-CoC.xlsx.

<sup>&</sup>lt;sup>29</sup> US Census Bureau. 2011. Census Blocks with Population and Housing Counts. Retrieved 7 Jun 2021 from https://www2.census.gov/geo/tiger/TIGER2010BLKPOPHU/.

<sup>&</sup>lt;sup>30</sup> Flavio Poletti, Daniel Herszenhut, Mark Padgham, Tom Buckley and Danton Noriega-Goodwin. 2021. tidytransit: Read, Validate, Analyze, and Map Files in the General Transit Feed Specification. R package version 1.0.0. Retreived 10 Sep 2021 from https://CRAN.R-project.org/package=tidytransit.

<sup>&</sup>lt;sup>31</sup> R Core Team (2021). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL https://www.R-project.org/.

<sup>&</sup>lt;sup>32</sup> OpenMobilityData. 2021. California, USA. Retrieved all feeds listed on 31 May to 1 June 2021 from https://openmobilitydata.org/l/67-california-usa.

Transitwiki.org,<sup>34</sup> and Santa Ynez Valley Transit.<sup>35</sup> Each of these websites list public transit data that have been made public by transit agencies. Transit data from all providers that could be identified were downloaded, and fixed transit stop locations were extracted from them.

The sf<sup>36</sup> library in R was then used to calculate 1/4 mile (402.336 meter) buffers around each of these transit stops, and then to identify which Census blocks fell within these areas. The total population of all tracts within the buffer of the stops was then divided by the total population of each county or state to generate the final indicator value.

# **Detailed Analytical Methodology**

The collected and processed primary and secondary data were integrated in two main analytical stages. First, secondary data were combined with results from key informant interviews and focus groups (primary data) to identify significant health needs within the service area. Then, primary data were used to prioritize those identified significant health needs. The specific details for these analytical steps are given in the following sections.

## **Significant Health Need Identification**

The general methods through which significant health needs (SHNs) were identified are shown in Figure 7 and described here in greater detail. The first step in this process was to identify a set of potential health needs (PHNs) from which significant health needs could be selected. This was done by reviewing the health needs identified during prior CHNAs among various hospitals throughout Central and Northern California and then supplementing this list based on a preliminary analysis of the primary qualitative data collected for the current CHNA. This resulted the list of PHNs shown in Table 18.

<sup>&</sup>lt;sup>33</sup> Transitland. 2021. Transitland Operators. Retrieved all operators with California locations on 31 May to 1 June 2021 from https://www.transit.land/operators.

<sup>&</sup>lt;sup>34</sup> Transitwiki.org. 2021. List of publicly-accessible transportation data feeds: dynamic and others. Retrieved on 31 May to 1 June 2021 from https://www.transitwiki.org/TransitWiki/index.php/Publicly-accessible\_public\_transportation\_data#List\_of\_publicly-

accessible public transportation data feeds: dynamic data and others.

 $<sup>^{\</sup>rm 35}$  Santa Ynez Valley Transit. GTFS Files. Retrieved 1 Jun 2021 from

http://www.cityofsolvang.com/DocumentCenter/View/2756/syvt\_gtfs\_011921.

<sup>&</sup>lt;sup>36</sup> Pebesma, E., 2018. Simple Features for R: Standardized Support for Spatial Vector Data. The R Journal 10 (1), 439-446, https://doi.org/10.32614/RJ-2018-009.

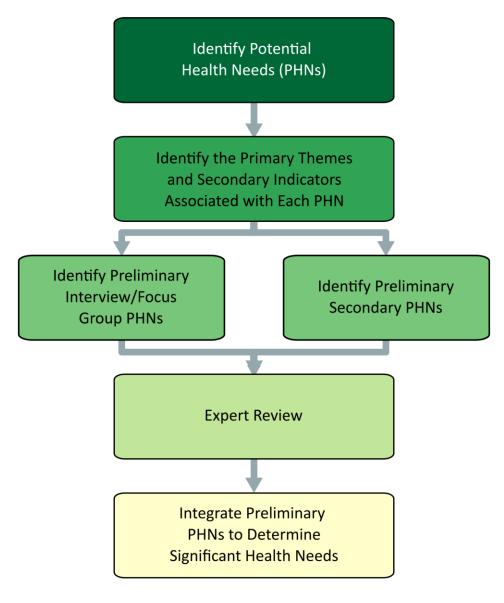


Figure 7: Significant health need identification process.

Table 18: 2022 Potential Health Needs.

Potent	Potential Health Needs (PHNs)		
PHN1	Access to Mental/Behavioral Health and Substance-Use Services		
PHN2	Access to Quality Primary Care Health Services		
PHN3	Active Living and Healthy Eating		
PHN4	Safe and Violence-Free Environment		
PHN5	Access to Dental Care and Preventive Services		
PHN6	Healthy Physical Environment		
PHN7	Access to Basic Needs Such as Housing, Jobs, and Food		
PHN8	Access to Functional Needs		
PHN9	Access to Specialty and Extended Care		
PHN10	Injury and Disease Prevention and Management		

Potential Health Needs (PHNs)
PHN11 Increased Community Connections
PHN12 System Navigation

The next step in the process was to identify primary themes and secondary indicators associated with each of these health needs as shown in Tables 19 through 30. Primary theme associations were used to guide coding of the primary data sources to specific PHNs.

## Access to Mental/Behavioral Health and Substance-Use Services

Table 19: Primary themes and secondary indicators associated with PHN1.

Primary Themes	Secondary Indicators
There aren't enough mental health providers or treatment centers in the	Life Expectancy
area (e.g., psychiatric beds, therapists, support groups).	Premature Age-Adjusted
The cost for mental/behavioral health treatment is too high.	Mortality
Treatment options in the area for those with Medi-Cal are limited.	Premature Death
Awareness of mental health issues among community members is low.	Liver Disease Mortality
Additional services specifically for youth are needed (e.g., child	Suicide Mortality
psychologists, counselors and therapists in the schools).	Poor Mental Health Days
The stigma around seeking mental health treatment keeps people out of	Frequent Mental Distress
care.	Poor Physical Health Days
Additional services for those who are homeless and dealing with	Frequent Physical Distress
mental/behavioral health issues are needed.	Poor or Fair Health
The area lacks the infrastructure to support acute mental health crises.	Excessive Drinking
Mental/behavioral health services are available in the area, but people do	Drug Induced Death
not know about them.	Adult Smoking
It's difficult for people to navigate for mental/behavioral healthcare.	Primary Care Shortage Area
Substance-use is a problem in the area (e.g., use of opiates and	Mental Health Care
methamphetamine, prescription misuse).	Shortage Area
There are too few substance-use treatment services in the area (e.g.,	Medically Underserved Area
detox centers, rehabilitation centers).	Mental Health Providers
Substance-use treatment options for those with Medi-cal are limited.	Psychiatry Providers
There aren't enough services here for those who are homeless and	Firearm Fatalities Rate
dealing with substance-use issues.	Juvenile Arrest Rate
The use of nicotine delivery products such as e-cigarettes and tobacco is a	Disconnected Youth
problem in the community.	Social Associations
Substance-use is an issue among youth in particular.	Residential Segregation
There are substance-use treatment services available here, but people do	(Non-White/White)
not know about them.	Income Inequality
	Severe Housing Cost Burden
	Homelessness Rate

# **Access to Quality Primary Care Health Services**

Table 20: Primary themes and secondary indicators associated with PHN2

Primary Themes	Secondary Indicators
Insurance is unaffordable.	Infant Mortality
Wait-times for appointments are excessively long.	Child Mortality
Out-of-pocket costs are too high.	Life Expectancy
There aren't enough primary care service providers in the area.	Premature Age-Adjusted Mortality
Patients have difficulty obtaining appointments outside of regular	Premature Death
business hours.	Stroke Mortality
Too few providers in the area accept Medi-Cal.	Chronic Lower Respiratory Disease
It is difficult to recruit and retain primary care providers in the	Mortality
region.	Diabetes Mortality
Specific services are unavailable here (e.g., 24-hour pharmacies,	Heart Disease Mortality
urgent care, telemedicine).	Hypertension Mortality
The quality of care is low (e.g., appointments are rushed, providers	Cancer Mortality
lack cultural competence).	Liver Disease Mortality
Patients seeking primary care overwhelm local emergency	Kidney Disease Mortality
departments.	COVID-19 Mortality
Primary care services are available, but are difficult for many	COVID-19 Case Fatality
people to navigate.	Alzheimer's Disease Mortality
	Influenza and Pneumonia
	Mortality
	Diabetes Prevalence
	Low Birthweight
	Poor Mental Health Days
	Frequent Mental Distress
	Poor Physical Health Days
	Frequent Physical Distress
	Poor or Fair Health
	Colorectal Cancer Prevalence
	Breast Cancer Prevalence
	Lung Cancer Prevalence
	Prostate Cancer Prevalence
	Asthma ED Rates
	Asthma ED Rates for Children
	Primary Care Shortage Area
	Medically Underserved Area
	Mammography Screening
	Primary Care Providers
	Preventable Hospitalization
	COVID-19 Cumulative Full
	Vaccination Rate
	Residential Segregation (Non-
	White/White)
	Uninsured Population under 64
	Income Inequality

Primary Themes	Secondary Indicators
	Homelessness Rate

# **Active Living and Healthy Eating**

Table 21: Primary themes and secondary indicators associated with PHN3

Primary Themes	Secondary Indicators
There are food deserts in the area where fresh, unprocessed foods are not	Life Expectancy
available.	Premature Age-Adjusted
Fresh, unprocessed foods are unaffordable.	Mortality
Food insecurity is an issue here.	Premature Death
Students need healthier food options in schools.	Stroke Mortality
The built environment doesn't support physical activity (e.g.,	Diabetes Mortality
neighborhoods aren't walk-able, roads aren't bike-friendly, or parks are	Heart Disease Mortality
inaccessible).	Hypertension Mortality
The community needs nutrition education programs.	Cancer Mortality
Homelessness in parks or other public spaces deters their use.	Kidney Disease Mortality
Recreational opportunities in the area are unaffordable (e.g., gym	Diabetes Prevalence
memberships, recreational activity programming.	Poor Mental Health Days
There aren't enough recreational opportunities in the area (e.g., organized	Frequent Mental Distress
activities, youth sports leagues)	Poor Physical Health Days
The food available in local homeless shelters and food banks is not	Frequent Physical Distress
nutritious.	Poor or Fair Health
Grocery store option in the area are limited.	Colorectal Cancer
	Prevalence
	Breast Cancer Prevalence
	Prostate Cancer Prevalence
	Asthma ED Rates
	Asthma ED Rates for
	Children
	Adult Obesity
	Physical Inactivity
	Limited Access to Healthy
	Foods
	Food Environment Index
	Access to Exercise
	Opportunities  Residential Segregation
	Residential Segregation
	(Non-White/White)
	Income Inequality Severe Housing Cost
	Burden
	Homelessness Rate
	Long Commute - Driving
	Alone

Primary Themes	Secondary Indicators
	Access to Public Transit

## **Safe and Violence-Free Environment**

Table 22: Primary themes and secondary indicators associated with PHN4

Primary Themes	Secondary Indicators
People feel unsafe because of crime.	Life Expectancy
There are not enough resources to address domestic violence and sexual	Premature Death
assault.	Hypertension Mortality
Isolated or poorly-lit streets make pedestrian travel unsafe.	Poor Mental Health Days
Public parks seem unsafe because of illegal activity taking place.	Frequent Mental Distress
Youth need more safe places to go after school.	Frequent Physical Distress
Specific groups in this community are targeted because of characteristics	Poor or Fair Health
like race/ethnicity or age.	Physical Inactivity
There isn't adequate police protection police protection.	Access to Exercise
Gang activity is an issue in the area.	Opportunities
Human trafficking is an issue in the area.	Homicide Rate
The current political environment makes some concerned for their safety.	Firearm Fatalities Rate
	Violent Crime Rate
	Juvenile Arrest Rate
	Motor Vehicle Crash Death
	Disconnected Youth
	Social Associations
	Income Inequality
	Severe Housing Problems
	Severe Housing Cost
	Burden
	Homelessness Rate

## **Access to Dental Care and Preventive Services**

Table 23: Primary themes and secondary indicators associated with PHN5

Primary Themes	Secondary Indicators
There aren't enough providers in the area who accept Denti-Cal.	Frequent Mental Distress
The lack of access to dental care here leads to overuse of	Poor Physical Health Days
emergency departments.	Frequent Physical Distress
Quality dental services for kids are lacking.	Poor or Fair Health
It's hard to get an appointment for dental care.	Dental Care Shortage Area
People in the area have to travel to receive dental care.	Dentists
Dental care here is unaffordable, even if you have insurance.	Residential Segregation (Non-
	White/White)
	Income Inequality

Primary Themes	Secondary Indicators
	Homelessness Rate

# **Healthy Physical Environment**

Table 24: Primary themes and secondary indicators associated with PHN6

Primary Themes	Secondary Indicators
The air quality contributes to high rates of asthma.	Infant Mortality
Poor water quality is a concern in the area.	Life Expectancy
Agricultural activity harms the air quality.	Premature Age-Adjusted Mortality
Low-income housing is substandard.	Premature Death
Residents' use of tobacco and e-cigarettes harms the air	Chronic Lower Respiratory Disease
quality.	Mortality
Industrial activity in the area harms the air quality.	Hypertension Mortality
Heavy traffic in the area harms the air quality.	Cancer Mortality
Wildfires in the region harm the air quality.	Frequent Mental Distress
	Frequent Physical Distress
	Poor or Fair Health
	Colorectal Cancer Prevalence
	Breast Cancer Prevalence
	Lung Cancer Prevalence
	Prostate Cancer Prevalence
	Asthma ED Rates
	Asthma ED Rates for Children
	Adult Smoking
	Income Inequality
	Severe Housing Cost Burden
	Homelessness Rate
	Long Commute - Driving Alone
	Pollution Burden Percent
	Air Pollution - Particulate Matter
	Drinking Water Violations

# Access to Basic Needs Such as Housing, Jobs, and Food

Table 25: Primary themes and secondary indicators associated with PHN7

Primary Themes	Secondary Indicators	
Lack of affordable housing is a significant issue in the area.	Infant Mortality	
The area needs additional low-income housing options.	ns. Child Mortality	
Poverty in the county is high.	Life Expectancy	
Many people in the area do not make a living wage.	Premature Age-Adjusted Mortality	
Employment opportunities in the area are limited.	Premature Death	
Services for homeless residents in the area are insufficient.	Hypertension Mortality	

Primary Themes	Secondary Indicators
Services are inaccessible for Spanish-speaking and immigrant	COVID-19 Mortality
residents.	COVID-19 Case Fatality
Many residents struggle with food insecurity.	Diabetes Prevalence
It is difficult to find affordable childcare.	Low Birthweight
Educational attainment in the area is low.	Poor Mental Health Days
	Frequent Mental Distress
	Poor Physical Health Days
	Frequent Physical Distress
	Poor or Fair Health
	COVID-19 Cumulative Incidence
	Asthma ED Rates
	Asthma ED Rates for Children
	Drug Induced Death
	Adult Obesity
	Limited Access to Healthy Foods
	Food Environment Index
	Medically Underserved Area
	COVID-19 Cumulative Full Vaccination
	Rate
	Some College
	High School Completion
	Disconnected Youth
	Third Grade Reading Level
	Third Grade Math Level
	Unemployment
	Children in Single-Parent Households
	Social Associations
	Residential Segregation (Non-
	White/White)
	Children Eligible for Free Lunch
	Children in Poverty
	Median Household Income
	Uninsured Population under 64
	Income Inequality
	Severe Housing Problems
	Severe Housing Cost Burden
	Homeownership
	Homelessness Rate
	Households with no Vehicle Available
	Long Commute - Driving Alone

# **Access to Functional Needs**

Table 26: Primary themes and secondary indicators associated with PHN8

Primary Themes	Secondary Indicators
Many residents do not have reliable personal transportation.	Disability
Medical transport in the area is limited.	Frequent Mental Distress
Roads and sidewalks in the area are not well-maintained.	Frequent Physical Distress
The distance between service providers is inconvenient for those using	Poor or Fair Health
public transportation.	Adult Obesity
Using public transportation to reach providers can take a very long time.	COVID-19 Cumulative Full
The cost of public transportation is too high.	Vaccination Rate
Public transportation service routes are limited.	Income Inequality
Public transportation schedules are limited.	Homelessness Rate
The geography of the area makes it difficult for those without reliable	Households with no Vehicle
transportation to get around.	Available
Public transportation is more difficult for some to residents to use (e.g.,	Long Commute - Driving
non-English speakers, seniors, parents with young children).	Alone
There aren't enough taxi and ride-share options (e.g., Uber, Lyft).	Access to Public Transit

# **Access to Specialty and Extended Care**

Table 27: Primary themes and secondary indicators associated with PHN9

Primary Themes	Secondary Indicators
Wait-times for specialist appointments are excessively long.	Infant Mortality
It is difficult to recruit and retain specialists in the area.	Life Expectancy
Not all specialty care is covered by insurance.	Premature Age-Adjusted
Out-of-pocket costs for specialty and extended care are too high.	Mortality
People have to travel to reach specialists.	Premature Death
Too few specialty and extended care providers accept Medi-Cal.	Stroke Mortality
The area needs more extended care options for the aging population	Chronic Lower Respiratory
(e.g. skilled nursing homes, in-home care)	Disease Mortality
There isn't enough OB/GYN care available.	Diabetes Mortality
Additional hospice and palliative care options are needed.	Heart Disease Mortality
The area lacks a kind of specialist or extended care option not listed	Hypertension Mortality
here.	Cancer Mortality
	Liver Disease Mortality
	Kidney Disease Mortality
	COVID-19 Mortality
	COVID-19 Case Fatality
	Alzheimer's Disease Mortality
	Diabetes Prevalence
	Poor Mental Health Days
	Frequent Mental Distress
	Poor Physical Health Days
	Frequent Physical Distress

Primary Themes	Secondary Indicators
	Poor or Fair Health
	Lung Cancer Prevalence
	Asthma ED Rates
	Asthma ED Rates for Children
	Drug Induced Death
	Psychiatry Providers
	Specialty Care Providers
	Preventable Hospitalization
	Residential Segregation (Non-
	White/White)
	Income Inequality
	Homelessness Rate

# Injury and Disease Prevention and Management

Table 28: Primary themes and secondary indicators associated with PHN10

Primary Themes	Secondary Indicators
There isn't really a focus on prevention around here.	Infant Mortality
Preventive health services for women are needed (e.g., breast and cervical	Child Mortality
cancer screening).	Stroke Mortality
There should be a greater focus on chronic disease prevention (e.g.	Chronic Lower Respiratory
diabetes, heart disease).	Disease Mortality
Vaccination rates are lower than they need to be.	Diabetes Mortality
Health education in the schools needs to be improved.	Heart Disease Mortality
Additional HIV and STI prevention efforts are needed.	Hypertension Mortality
The community needs nutrition education opportunities.	Liver Disease Mortality
Schools should offer better sexual health education.	Kidney Disease Mortality
Prevention efforts need to be focused on specific populations in the	Suicide Mortality
community (e.g. youth, Spanish-speaking residents, the elderly, LGBTQ	Unintentional Injuries
individuals, immigrants).	Mortality
Patients need to be better connected to service providers (e.g. case	COVID-19 Mortality
management, patient navigation, or centralized service provision).	COVID-19 Case Fatality
	Alzheimer's Disease
	Mortality
	Diabetes Prevalence
	Low Birthweight
	HIV Prevalence
	Poor Mental Health Days
	Frequent Mental Distress
	Frequent Physical Distress
	Poor or Fair Health
	COVID-19 Cumulative
	Incidence
	Asthma ED Rates

Primary Themes	Secondary Indicators
	Asthma ED Rates for
	Children
	Excessive Drinking
	Drug Induced Death
	Adult Obesity
	Physical Inactivity
	Chlamydia Incidence
	Teen Birth Rate
	Adult Smoking
	COVID-19 Cumulative Full
	Vaccination Rate
	Firearm Fatalities Rate
	Juvenile Arrest Rate
	Motor Vehicle Crash
	Death
	Disconnected Youth
	Third Grade Reading Level
	Third Grade Math Level
	Income Inequality
	Homelessness Rate

# **Increased Community Connections**

Table 29: Primary themes and secondary indicators associated with PHN11

Primary Themes	Secondary Indicators
Health and social-service providers operate in silos; we need	Infant Mortality
cross-sector connection.	Child Mortality
Building community connections doesn't seem like a focus in the	Life Expectancy
area.	Premature Age-Adjusted Mortality
Relations between law enforcement and the community need to	Premature Death
be improved.	Stroke Mortality
The community needs to invest more in the local public schools.	Diabetes Mortality
There isn't enough funding for social-services in the county.	Heart Disease Mortality
People in the community face discrimination from local service	Hypertension Mortality
providers.	Suicide Mortality
City and county leaders need to work together.	Unintentional Injuries Mortality
	Diabetes Prevalence
	Low Birthweight
	Poor Mental Health Days
	Frequent Mental Distress
	Poor Physical Health Days
	Frequent Physical Distress
	Poor or Fair Health
	Excessive Drinking

Primary Themes	Secondary Indicators
	Drug Induced Death
	Physical Inactivity
	Access to Exercise Opportunities
	Teen Birth Rate
	Primary Care Shortage Area
	Mental Health Care Shortage Area
	Medically Underserved Area
	Mental Health Providers
	Psychiatry Providers
	Specialty Care Providers
	Primary Care Providers
	Preventable Hospitalization
	COVID-19 Cumulative Full
	Vaccination Rate
	Homicide Rate
	Firearm Fatalities Rate
	Violent Crime Rate
	Juvenile Arrest Rate
	Some College
	High School Completion
	Disconnected Youth
	Unemployment
	Children in Single-Parent
	Households
	Social Associations
	Residential Segregation (Non-
	White/White)
	Income Inequality
	Homelessness Rate
	Households with no Vehicle
	Available
	Long Commute - Driving Alone
	Access to Public Transit

# **System Navigation**

Table 30: Primary themes and secondary indicators associated with PHN12

Primary Themes	Secondary Indicators
People may not be aware of the services they are eligible for.	-
It is difficult for people to navigate multiple, different health care systems.	
The area needs more navigators to help to get people connected to services.	
People have trouble understanding their insurance benefits.	
Automated phone systems can be difficult for those who are unfamiliar with the	

Primary Themes	Secondary Indicators
healthcare system	
Dealing with medical and insurance paperwork can be overwhelming.	
Medical terminology is confusing.	
Some people just don't know where to start in order to access care or benefits.	

Next, values for the secondary health-factor and health-outcome indicators identified were compared to state benchmarks to determine if a secondary indicator performed poorly within the county. Some indicators were considered problematic if they exceeded the benchmark, others were considered problematic if they were below the benchmark, and the presence of certain other indicators within the county, such as health professional shortage areas, indicated issues. Table 31 lists each secondary indicator and describes the comparison made to the benchmark to determine if it was problematic.

Table 31: Benchmark comparisons to show indicator performance.

Indicator	Benchmark Comparison Indicating Poor Performance
Infant Mortality	Higher
Child Mortality	Higher
Life Expectancy	Lower
Premature Age-Adjusted Mortality	Higher
Premature Death	Higher
Stroke Mortality	Higher
Chronic Lower Respiratory Disease Mortality	Higher
Diabetes Mortality	Higher
Heart Disease Mortality	Higher
Hypertension Mortality	Higher
Cancer Mortality	Higher
Liver Disease Mortality	Higher
Kidney Disease Mortality	Higher
Suicide Mortality	Higher
Unintentional Injuries Mortality	Higher
COVID-19 Mortality	Higher
COVID-19 Case Fatality	Higher
Alzheimer's Disease Mortality	Higher
Influenza and Pneumonia Mortality	Higher
Diabetes Prevalence	Higher
Low Birthweight	Higher
HIV Prevalence	Higher
Disability	Higher
Poor Mental Health Days	Higher
Frequent Mental Distress	Higher
Poor Physical Health Days	Higher
Frequent Physical Distress	Higher
Poor or Fair Health	Higher
Colorectal Cancer Prevalence	Higher
Breast Cancer Prevalence	Higher
Lung Cancer Prevalence	Higher

Indicator	Benchmark Comparison Indicating Poor Performance
Prostate Cancer Prevalence	Higher
COVID-19 Cumulative Incidence	Higher
Asthma ED Rates	Higher
Asthma ED Rates for Children	Higher
Excessive Drinking	Higher
Drug Induced Death	Higher
Adult Obesity	Higher
Physical Inactivity	Higher
Limited Access to Healthy Foods	Higher
Food Environment Index	Lower
Access to Exercise Opportunities	Lower
Chlamydia Incidence	Higher
Teen Birth Rate	Higher
Adult Smoking	Higher
Primary Care Shortage Area	Present
Dental Care Shortage Area	Present
Mental Health Care Shortage Area	Present
Medically Underserved Area	Present
Mammography Screening	Lower
Dentists	Lower
Mental Health Providers	Lower
Psychiatry Providers	Lower
Specialty Care Providers	Lower
Primary Care Providers	Lower
Preventable Hospitalization	Higher
COVID-19 Cumulative Full Vaccination Rate	Lower
Homicide Rate	Higher
Firearm Fatalities Rate	Higher
Violent Crime Rate	Higher
Juvenile Arrest Rate	Higher
Motor Vehicle Crash Death	Higher
Some College	Lower
High School Completion	Lower
Disconnected Youth	Higher
Third Grade Reading Level	Lower
Third Grade Math Level	Lower
Unemployment	Higher
Children in Single-Parent Households	Higher
Social Associations	Lower
Residential Segregation (Non-White/White)	Higher
Children Eligible for Free Lunch	Higher
Children in Poverty	Higher
Median Household Income	Lower
Uninsured Population under 64	Higher
Income Inequality	Higher
Severe Housing Problems	Higher

Indicator	Benchmark Comparison Indicating Poor Performance
Severe Housing Cost Burden	Higher
Homeownership	Lower
Homelessness Rate	Higher
Households with no Vehicle Available	Higher
Long Commute - Driving Alone	Higher
Access to Public Transit	Lower
Pollution Burden Percent	Higher
Air Pollution - Particulate Matter	Higher
Drinking Water Violations	Present

Once these poorly performing quantitative indicators were identified, they were used to identify preliminary secondary significant health needs. This was done by calculating the percentage of all secondary indicators associated with a given PHN that were identified as performing poorly within the HSA. While all PHNs represented actual health needs within the HSA to a greater or lesser extent, a PHN was considered a preliminary secondary health need if the percentage of poorly performing indicators exceeded one of a number of established thresholds: any poorly performing associated secondary indicators; or at least 10%, 20%, 30%, 40%, 50%, 60%, 70%, or 80% of the associated indicators were found to perform poorly. A similar set of standards was used to identify the preliminary interview and focus-group health needs: if at least 10%, 20%, 30%, 40%, 50%, 60%, 70%, or 80% of the respondents mentioned an associated theme.

These sets of criteria (any mention, 10%, 20%, 30%, 40%, 50%, 60%, 70%, or 80%) were used because we could not anticipate which specific standard would be most meaningful within the context of the HSA. Having multiple objective decision criteria allows the process to be more easily described but still allows for enough flexibility to respond to evolving conditions in the HSA. To this end, a final round of expert reviews was used to compare the set selection criteria to find the level at which the criteria converged towards a final set of SHNs.

For this report, a PHN was selected as a preliminary quantitative significant health need if 60% of the associated quantitative indicators were identified as performing poorly, and as a preliminary qualitative significant health need if it was identified by 60% or more of the primary sources as performing poorly. Finally, a PHN was selected as a significant health need if it was included as a preliminary significant health need in either or both of these categories.

#### **Health Need Prioritization**

The final step in the analysis was to prioritize the identified SHNs. To reflect the voice of the community, significant health need prioritization was based solely on primary data. Key informants and focus-group participants were asked to identify the three most significant health needs in their communities. These responses were associated with one or more of the potential health needs. This, along with the responses across the rest of the interviews and focus groups, was used to derive two measures for each significant health need.

First, the total percentage of all primary data sources that mentioned themes associated with a significant health need at any point was calculated. This number was taken to represent how broadly a given significant health need was recognized within the community. Next, the percentage of times a theme associated with a significant health was mentioned as one of the top three health needs in the

community was calculated. Since primary data sources were asked to prioritize health needs in this question, this number was taken to represent the intensity of the need.

These two measures were then rescaled so that the SHN with the maximum value for each measure equaled one, the minimum equaled zero, and all other SHNs had values appropriately proportional to the maximum and minimum values. The rescaled values were then summed to create a combined SHN prioritization index. SHNs were ranked in descending order based on this index value so that the SHN with the highest value was identified as the highest-priority health need, the SHN with the second highest value was identified as the second-highest-priority health need, and so on.

## **Detailed List of Resources to Address Health Needs**

Table 32: Resources available to meet health needs.

Organization Information			Significant Health Needs											
Name	Primary ZIP Code	Website	Access to Basic Needs Such as Housing, Jobs, and Food	Mental/Behavioral Health and Substance-Use	Access to Specialty and Extended Care	Access to Quality Primary Care Health Services	Injury and Disease Prevention and Management	Access to Functional Needs	Increased Community Connections	Active Living and Healthy Eating	Safe and Violence- Free Environment	System Navigation	Access to Dental Care and Preventive Services	Healthy Physical Environment
211 Merced	Whole County	www.211ca.org		х	х	х		х					x	
Adult Protective Services	Whole County	www.co.merced.ca.us/1480/Adult- Protective-Services		х										
Aegis Treatment Centers Merced	95340	pinnacletreatment.com/location/califor nia/merced/aegis-treatment-centers- merced		х								х		
Alliance for Community Transformations	95338	https://alliance4community.org/	х						х		х			
American Cancer Society	Whole County	www.cancer.org/about- us/local/california.html					х							
Apex Medical Group	95635	www.apexmedicalgroup.org				х	х							
Boys and Girls Club of Merced County	95340	www.bgcmerced.org							х		х			
California Children Services Merced	Whole County	www.co.merced.ca.us/552/California- Children-Services				х								
Caring Kids	95341	www.mcoe.org/deptprog/earlyed/CK/pa ges/caring-kids.aspx		х					х					
Castle Family Health Center	95301	www.cfhc.care		х		х	х						х	
Central California Alliance for Health	Whole County	thealliance.health		х		х		х				х	х	
Community Foundation of Merced County	Whole County	www.mercedfoundation.org							х					
Cultiva L Salud-United Way of Merced County	Whole County	www.unitedwaymerced.org	х			х			х					

Organization Information			Significant Health Needs											
Name	Primary ZIP Code	Website	Access to Basic Needs Such as Housing, Jobs, and Food	Mental/Behavioral Health and Substance-Use	Access to Specialty and Extended Care	Access to Quality Primary Care Health Services	Injury and Disease Prevention and Management	Access to Functional Needs	Increased Community Connections	Active Living and Healthy Eating	Safe and Violence- Free Environment	System Navigation	Access to Dental Care and Preventive Services	Healthy Physical Environment
Dignity Health- Merced US Davis Cancer Center	95430	www.dignityhealth.org/central- california/locations/mercymedical- merced/services/mercy-uc-davis-cancer- center					х		х					
Dignity Health- Mercy Medical Center (Merced)	95340	www.dignityhealth.org/central- california/locations/mercymedical- merced					х							
First 5 Merced County	Whole County	www.co.merced.ca.us/598/First-5		х		х			х	х			х	
Geo Reentry Services	Whole County	www.georeentry.com/merced-county- expands-reentry-services-new-programs		х								х		
Golden Valley Health Centers	Whole County	www.gvhc.org		х		х	х					х	х	
Gustine Unified School District	95322	www.gustineusd.org	х	х							х	х		
Healthy House	95340	healthyhousemerced.org				х			х			х		
Human Services Agency	Whole County	www.co.merced.ca.us/74/Human- Services-Agency	х	х		х			х			х		
Junior Giants	Whole County	www.co.merced.ca.us/1871/Junior- Giants							х		х			
Lifetime of Wellness- National Diabetes Prevention Program	Whole County	www.co.merced.ca.us/2660/Lifetime-of- Wellness					х			х				
Livingston Community Health	Whole County	www.visitlch.org/contact-us		х		х						х	х	
Los Banos Chamber of Commerce	93635	www.losbanos.com							х		х			
Los Banos Unified School District	93635	www.losbanosusd.org	х	х							х	х		

Organization Information	Organization Information					Significant Health Needs									
Name	Primary ZIP Code	Website	Access to Basic Needs Such as Housing, Jobs, and Food	Mental/Behavioral Health and Substance-Use	Access to Specialty and Extended Care	Access to Quality Primary Care Health Services	Injury and Disease Prevention and Management	Access to Functional Needs	Increased Community Connections	Active Living and Healthy Eating	Safe and Violence- Free Environment	System Navigation	Access to Dental Care and Preventive Services	Healthy Physical Environment	
Love, Inc.	95344	loveincmerced.com	х				х								
Marie Green Center	95341	www.co.merced.ca.us/483/Marie- Green-Center		х											
Maternal, Child and Adolescent Health Services	Whole County	www.co.merced.ca.us/614/Maternal- Child-Health		х		х						х			
Medi-Cal, Denti-Cal Merced County	Whole County	www.co.merced.ca.us/458/Medi-Cal				х							х		
Memorial Hospital Los Banos	93635	www.sutterhealth.org/find- location/facility/memorial-hospital-los- banos					х		х			х			
Merced Cancer Society Foundation	95348	mercedcancersociety.org					х		х						
Merced County Behavioral Health and Recovery Services	Whole County	www.co.merced.ca.us/78/Behavioral- Health-Recovery-Services		х					х						
Merced County Department of Public Health	Whole County	www.co.merced.ca.us/2832/Public- Health	х	х	х	х	х						х		
Merced County Food Bank	Whole County	mmcfb.org	х												
Merced County HIV Programs	Whole County	www.co.merced.ca.us/574/HIV													
Merced County Homeless Assistance	95340	www.co.merced.ca.us/848/Homeless- Assistance	х												
Merced County Rescue Mission	95340	www.mercedcountyrescuemission.org	х												

Organization Information	Organization Information						Significant Health Needs								
Name	Primary ZIP Code	Website	Access to Basic Needs Such as Housing, Jobs, and Food	Mental/Behavioral Health and Substance-Use	Access to Specialty and Extended Care	Access to Quality Primary Care Health Services	Injury and Disease Prevention and Management	Access to Functional Needs	Increased Community Connections	Active Living and Healthy Eating	Safe and Violence- Free Environment	System Navigation	Access to Dental Care and Preventive Services	Healthy Physical Environment	
Merced Faculty Associates Medical Group	Whole County	www.mfamg.com				х	х					х			
Merced Head Start	95341	www.mcoe.org/deptprog/earlyed/Head Start/Pages/default.aspx			х		х		х			х			
Merced Lao Family Community	95348	www.laofamilymerced.org		х					х						
Merced Strong Families Program	Whole County	www.co.merced.ca.us/2418/Strong- Families					х		х						
Merced Transit Buses	Whole County	www.mercedthebus.com/181/Merced- Routes						х							
Merced WIC	Whole County	www.wicmerced-mariposa.com	х									х			
Mercy Merced Family Residency Program	Whole County	https://www.familydocs.org/fmrp- mercy-merced/				х									
National Alliance on Mental Illness NAMI Merced County	Whole County	namimerced.org		х					х						
Older Adulty System of Care Program	Whole County	www.co.merced.ca.us/3118/Older- Adult-System-of-Care-Program			х			х	х						
Oral Health Program	Whole County	www.co.merced.ca.us/3198/Oral- Health-Program										х	х		
Planned Parenthood	95348	www.plannedparenthood.org/health- center/california/merced/95348/merce d-health-center-2526-90130			х	х	х								
Salvation Army	95341	merced.salvationarmy.org	х	х			х			х	х			х	
Sierra Vista Child and Family Services	95340	www.sierravistacares.org		х											

Organization Information				Significant Health Needs										
Name	Primary ZIP Code	Website	Access to Basic Needs Such as Housing, Jobs, and Food	Mental/Behavioral Health and Substance-Use	Access to Specialty and Extended Care	Access to Quality Primary Care Health Services	Injury and Disease Prevention and Management	Access to Functional Needs	Increased Community Connections	Active Living and Healthy Eating	Safe and Violence- Free Environment	System Navigation	Access to Dental Care and Preventive Services	Healthy Physical Environment
SNAP-Ed	Whole County	www.co.merced.ca.us/2659/SNAP-Ed					х		х					
Suicide Prevention Hotline	Whole County	www.co.merced.ca.us/482/Crisis- Intervention												
The David J. Riordan's Hobie House	95301, 95340	www.csmainc.org	х	х								х		
Turning Point	95341	www.tpcp.org/program-cat/merced- county	х	х										
Turning Point Community Programs- New Direction	95341	www.tpcp.org/programs/new-direction	x									х		
United Way of Merced County	95340	www.unitedwaymerced.org	х			х			х					
Valley Children's Satellite Clinic	95348	www.valleychildrens.org/locations/olive wood-specialty-care-center-merced					х					х		

### **Limits and Information Gaps**

Study limitations for this CHNA included obtaining secondary quantitative data specific to population subgroups, and assuring community representation through primary data collection. Most quantitative data used in this assessment were not available by race/ethnicity. The timeliness of the data also presented a challenge, as some of the data were collected in different years; however, this is clearly noted in the report to allow for proper comparison.

For primary data, gaining access to participants that best represent the populations needed for this assessment was a challenge for the key informant interviews, focus groups and CSP survey. The COVID-19 pandemic made this more difficult as community members were more difficult to recruit for focus groups. Though an effort was made to verify all resources (assets) through a web search, ultimately some resources that exist in the service area may not be listed.

Finally, though this CHNA was conducted with an equity focus, data that point to differences among population subgroups that are more "upstream" focused are not as available as those data that detail the resulting health disparities. Having a clearer picture of early-in-life opportunity differences experienced among various populations that result in later-in-life disparities can help direct community health improvement efforts for maximum impact.

# Appendix A – Impact of Actions Taken by the Hospital

### MENTAL HEALTH

Name of program/activity/initiative	Area Wide Mental Health Strategy
Description	The need for mental health services and resources, especially for the underserved, has reached a breaking point across the Sutter Health Valley Operating Unit. This is why we are focused on building a comprehensive mental health strategy that integrates key elements such as policy and advocacy, county specific investments, stigma reduction, increased awareness and education, with tangible outreach such as expanded mental health resources to professionals in the workplace and tele psych options to the underserved.
Goals	By linking these various strategies and efforts through engaging in statewide partnerships, replicating best practices, and securing innovation grants and award opportunities, we have the ability to create a seamless network of mental health care resources so desperately needed in the communities we serve.
Outcomes	In 2020, the mental health strategy helped with the following initiatives:  Advance legislation that expands the California Mental Health Parity Act and ensures that medical necessity coverage determinations are consistent with generally accepted standards of care. This legislation Senate Bill 855 – passed in June 2020.  Additionally, based on parity advocacy, the Governor publicly touted parity enforcement as a priority on a number of occasions and the enacted budget for California includes over \$2.7 million in additional resources for the Department of Managed Health Care (DMHC) to enforce parity this year with \$4.7 million annually thereafter.  In 2021, the mental health strategy helped with the following initiatives:  Launch the 988 crisis line going live on July 26, 2022  Pass SB803 for peer certification.  Secure funding for SB71/Bring CA Home in amount of \$2 billion over two years and an unspecified amount future funding.  Advocate for funding for board and care with the County Behavioral Health Directors Association and other organizations serving people living with severe mental illness and/or substance use disorder. Resulting in securing \$803 million, with program details still to be fleshed out.  Propose Children and Youth Initiative and assist Secretary Ghaly to develop what became one of the Governor's signature budget achievements: \$4.5 billion over five years to meet the behavioral health needs of children.
Name of program/activity/initiative	Merced County Behavioral Health Links Program
Description	Collaboration with Merced County Behavioral Health to hire a Alcohol and Drug Counselor and Mental Health Clinician to provide services to the community of Los Banos.
Goals	Goal is to be able to complete screening for substance use disorders (SUD) and co-occurring disorders in the community and linking those individuals assessed as needing additional services to treatment and
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	other resources. The practice of actively screening, initiating psychosocial and pharmacological interventions, and linking patients with SUD to ongoing medication maintenance and behavioral health therapies, has been identified as a critical component to successful recovery.
Outcomes	<ul> <li>2021 – Program initiated and scope defined, staff in the process of being hired.</li> <li>Once staff are hired in 2022, 75% of community and hospital-based referrals will receive a mental health/substance use disorder screening and be connected to the appropriate level of care.</li> <li>90% of individuals in need of housing will receive a warm hand-off to housing resources including the respite house.</li> </ul>

## NUTRITION, PHYSICAL ACTIVITY, AND WEIGHT

Name of	Boys & Girls Club of Merced County
program/activity/initiative	
Description	Providing a positive, safe, healthy, fun and educational after school program for the children in Los Banos Monday through Friday to help bring out the best in each young person and enable them to reach their full potential as productive, caring, and responsible citizens.
Goals	<ul> <li>To provide quality after-school enrichment activities that focus on academic success, healthy lifestyles, great character and leadership development.</li> <li>To provide students a structured and safe environment that stresses responsible behavior, respect for others, and positive caring attitudes.</li> <li>To provide caring staff mentors who provide guidance, support and encouragement to help children to build confidence and self-esteem so that they can realize their true potential.</li> <li>To provide communication and resources to parents regarding their children's general wellbeing.</li> <li>To fill in the gaps during the pandemic to help children with their virtual learning so that they do not fall behind or have learning loss.</li> </ul>
Outcomes	<ul> <li>2020: 37 children and youth served; and 30 families.</li> <li>Success story: we have two students who were homeless and not able to attend their virtual school classes, they were failing school, feeling lost and struggling emotionally. It was a very low and difficult time for them. However, we were able to work with the school and other resources to help find housing for the family. A few board members also helped to provided some clothing and basic needs for the family and the children we are able to come to the Los Banos Boys &amp; Girls Club site to attend their virtual classes, get homework help, connect with friends and caring mentors. They are no longer feeling despair or lost and are doing very well in school, they are engaged in learning, having fun and able to be a kid again.</li> <li>2021: 17 children and youth served; 476 services provided.</li> </ul>

Name of program/activity/initiative	Shady Creek Outdoor Education Foundation – Fit Quest
Description	The three tenets of Fit Quest are nutrition, physical activity, and mental wellness and the students' overall health. The Fit Quest program serves students in the 5th and 6th grades (ages 9-13 years old in their respective communities) either in the classroom or, if the school permits, by interactive virtual assemblies (at least 2 site visits, if approved by the school) to accommodate current health concerns.
	The Fit Quest curriculum, now adapted to a live streaming interactive assembly, continues to immerse the students in three arenas, nutrition, mental wellness and physical activity. Using these topics we discuss and engage students in how to create a healthy, active lifestyle.
	Students in now six of the Merced schools will participate in age appropriate grade standard based nutrition, physical activity, and mental wellness experiential learning program. This will include zoom classroom/assembly instruction, (3 visits with the Fit Quest teaching team) visits are conducted by the former naturalists.
Goals	<ul> <li>This program raises awareness in students regarding the need to 1.) be thoughtful in food choices, 2.) be responsible for what they can control, 3.) choose to be active, 4.) provide mental wellness tools and mindfulness techniques.</li> <li>To provide tools, education, resources, and understanding of these tenets to students with a message that their choices today affect their health tomorrow, into their future. School visits and interactive virtual assemblies reinforce the program's message.</li> </ul>
Outcomes	<ul> <li>2020 – Served 500 youth, and 36 adults.</li> <li>2021 –Served 12 adults; challenges with delivering programming during the pandemic.</li> </ul>

### **ACCESS TO HEALTH SERVICES**

Name of program/activity/initiative	Golden Valley Health Centers Street Medicine
Description	Golden Valley Health Centers Street Medicine Team provides acute medical services and access to care to people who are homeless. A Licensed Vocational Nurse (LVN) and a Community Health Worker (CHW) are connecting with the homeless population by bringing medical services to them with the use of a van equipped with medical supplies to perform basic medical services such as wound care, blood pressure checks, and health assessments. The general scope of the medical team is to provide outreach, triage, mobile medicine, transportation, and referrals to GVHC and community partners. Outreach entails making connections with the homeless population by listening and learning their needs as told by the community. The CHW provides water, snacks, socks, and education on how to access health care and other community resources.
Goals	Our yearly goal is to provide direct medical services and/or access to a medical provider for at least 1,200 people within Stanislaus and Merced Counties.
Outcomes	<ul> <li>2019 – 960 adults served; 543 services provided; 1,589 service referrals.</li> <li>2020 – 1,000 adults served; 717 services provided; 4,661 service</li> </ul>

	<ul> <li>referrals.</li> <li>2021 –223 adults served; 92 services provided; 223 service referrals.</li> </ul>
Name of program/activity/initiative	United Way of Merced County – Cultiva La Salud
Description	Cultiva La Salud recognizes residents play a critical role in cultivating and sustaining healthy communities and they must always be included in changing systems that impact their overall health. However, low income residents don't often do not have access to civic engagement opportunities because some systems deliberately prevent them from uplifting their voices and concerns. Cultiva la Salud will continue to work with residents in creating policies and systems changes that improve the overall health of their communities. These may include no smoking in public places healthy water in schools, parent engagement in the Local Control Funding Formula to improve school health, joint use, healthy parks and other initiatives that support healthy equity opportunities. We will work with the first cohort of Mujeres Poderosas on a monthly basis and will train an additional 25 new residents to continue to build resident power.
Goals	Train 25 to 30 new residents in Cultiva La Salud's Powerful People Leadership Training and continue to work with the current (28 Residents Leaders from Cohort #1) to create positive social changes in the community of Los Banos and its surrounding area.
Outcomes	<ul> <li>2020 – Directly served 84 individuals and reached 6,628 people through events and outreach. Provided 125 services and 421 service referrals.</li> <li>2021 – Directly served 334 individuals and reached 5,560 people through events and outreach. Provided 140 services and 3,295 service referrals.</li> </ul>