

2022 Community Health Needs Assessment Technical Section



MEDICAL CENTER



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Conducted on behalf of

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Conducted by



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

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2022 CHNA Technical Section

The following section presents a detailed account of data collection, analysis, and results as well as appendices to the community health needs assessment (CHNA) report for Sacramento County. The main report can be found online at https://health.ucdavis.edu/aboutus/community-engagement/index.html.

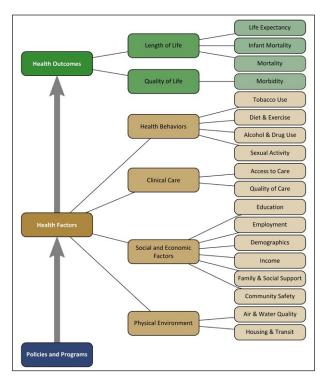
CHNA Methods and Processes

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 1. This model organizes a population's 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 1: 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 2 outlines the data collection and analysis stages of this process. The project began by confirming the service area for Sacramento County for which the CHNA would be conducted. Primary data collection included key informant interviews and focus groups with community health experts and residents, as well as a Community Service Provider (CSP) survey. Initial key informant interviews were used to identify Communities of Concern, which are areas or population subgroups within the county experiencing health disparities.

Overall primary and secondary data were integrated to identify significant health needs (SHNs) for the service area. SHNs were then prioritized based on analysis of the primary data. Finally, information was collected regarding the resources available within the community to 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 subsequent sections. This is followed by a more detailed description of the methodology utilized during the main analytical stages of the process.

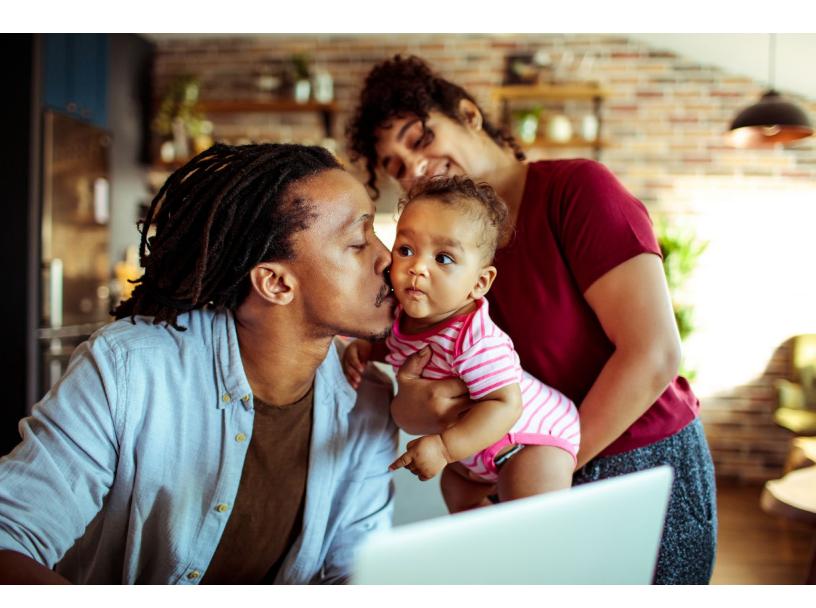
Confirm Service Area Collect Secondary Data **Collect Primary Data** Previous ₩ Communities of Concern **Healthy Places Key Informant Interviews** Health Index (HPI) (Individual and Group) Outcomes **HSA-Wide Data Analysis** Community Health Service Factors Provider Finalize Communities of Concern: Geographic Locations and Survey and **Subgroups Experiencing Disparities Outcomes** Collect Primary Data: Focus Groups with **Community Partners and Community Members** Integrate and Analyze All Primary and Secondary Data **Identify and Prioritize Significant Health Needs** Confirm and Update List of **Acquire Hospital Evaluations** Collect Written Comments Resources Available to Meet of Impact and Received by Hospital on Its Prioritized Health Needs Include in Report **Previous CHNA** Write Final CHA/CHNA Report

Figure 2: CHNA process model

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 process. Indicator values for Sacramento County were compared to the California state benchmark and are highlighted in Table 1. The associated figures show rates for the county compared to the California state rates.



Length of Life

Table 1: Health need prioritization inputs for Sacramento County

Indicators	Description	Sacramento	California
Early Life		<u>'</u>	
Infant Mortality	Number of all infant deaths (within 1 year), per 1,000 live births.	4.9	4.2
Child Mortality	Number of deaths among children under age 18 per 100,000 population.	41.5	36
Life Expectancy	Average number of years a person can expect to live.	79.6	81.7
Overall			
Premature Age-Adjusted Mortality	Number of deaths among residents under age 75 per 100,000 population (age-adjusted).	325	268.4
Premature Death	Years of potential life lost before age 75 per 100,000 population (age-adjusted).	6,381.6	5,253.1
Stroke Mortality	Number of deaths due to stroke per 100,000 population.	47	41.2
Chronic Lower Respiratory Disease Mortality	Number of deaths due to chronic lower respiratory disease per 100,000 population.	40.6	34.8
Diabetes Mortality	Number of deaths due to diabetes per 100,000 population.	30.2	24.1
Heart Disease Mortality	Number of deaths due to heart disease per 100,000 population.	171.1	159.5
Hypertension Mortality	Number of deaths due to hypertension per 100,000 population.	17.8	13.8
Cancer, Liver, and Kidney Di	sease		
Cancer Mortality	Number of deaths due to cancer per 100,000 population.	169.7	152.9
Liver Disease Mortality	Number of deaths due to liver disease per 100,000 population.	13.7	13.9
Kidney Disease Mortality	Number of deaths due to kidney disease per 100,000 population.	3.6	9.7
Intentional and Unintention	al Injuries		
Suicide Mortality	Number of deaths due to suicide per 100,000 population.	13.6	11.2
Unintentional Injuries Mortality	Number of deaths due to unintentional injuries per 100,000 population.	43.5	35.7
COVID			
COVID-19 Mortality	Number of deaths due to COVID-19 per 100,000 population.	150.8	185.1
COVID-19 Case Fatality	Percentage of COVID-19 deaths per laboratory-confirmed COVID-19 cases.	1.4%	1.5%
Other			
Alzheimer's Disease Mortality	Number of deaths due to Alzheimer's disease per 100,000 population. 47.3		
Influenza and Pneumonia Mortality	Number of deaths due to influenza and pneumonia per 100,000 population.	16.2	16

Quality of Life

Table 2: County quality of life indicators compared to state benchmarks

Indicators	dicators Description		
Chronic Disease			
Diabetes Prevalence	Percentage of adults aged 20 and above with diagnosed diabetes.	9.4%	8.8%
Low Birthweight	Percentage of live births with low birthweight (< 2,500 grams).	6.9%	6.9%
HIV Prevalence	Number of people aged 13 years and older living with a diagnosis of human immunodeficiency virus (HIV) infection per 100,000 population.	335.2	395.9
Disability	Percentage of the total civilian noninstitutionalized population with a disability	11.8%	10.6%
Mental Health			
Poor Mental Health Days	Average number of mentally unhealthy days reported in past 30 days (age-adjusted).	4.5	3.7
Frequent Mental Distress	Percentage of adults reporting 14 or more days of poor mental health per month (age-adjusted).	13.3%	11.3%
Poor Physical Health Days	Average number of physically unhealthy days reported in past 30 days (age-adjusted).	4.2	3.9
Frequent Physical Distress	Percentage of adults reporting 14 or more days of poor physical health per month (age-adjusted).	12.6%	11.6%
Poor or Fair Health	Percentage of adults reporting fair or poor health (age-adjusted).	18.3%	17.6%
Cancer			
Colorectal Cancer Prevalence	Colon and rectum cancers per 100,000 population (age-adjusted).	37.8	34.8
Breast Cancer Prevalence	Female in situ breast cancers per 100,000 female population (age-adjusted).	31.8	27.9
Lung Cancer Prevalence	Lung and bronchus cancers per 100,000 population (age-adjusted).	52.1	40.9
Prostate Cancer Prevalence	Prostate cancers per 100,000 male population (age-adjusted).	79.2	91.2
COVID-19			
COVID-19 Cumulative Incidence	Number of laboratory-confirmed COVID-19 cases per 100,000 population.	10,567.2	12,087.6
Other			
Asthma ED Rates	Emergency department visits due to asthma per 10,000 (age-adjusted).	641	422
Asthma ED Rates for Children	nma ED Rates for Emergency department visits due to asthma among		601

Health Behavior

Table 3: County health behavior indicators compared to state benchmarks

Indicators	Description	Sacramento	California
Excessive Drinking	Percentage of adults reporting binge or heavy drinking (age-adjusted).	20.4%	18.1%
Drug-Induced Death	Drug-Induced deaths per 100,000 (age-adjusted).	19.4	14.3
Adult Obesity	Percentage of the adult population (ages 20 and older) that reports a body mass index (BMI) greater than or equal to 30 kg/m2.	29.9%	24.3%
Physical Inactivity	Percentage of adults aged 20 and over reporting no leisure-time physical activity.	19.8%	17.7%
Limited Access to Healthy Foods	Percentage of population who are low-income and do not live close to a grocery store. 4.4%		3.3%
Food Environment Index	Index of factors that contribute to a healthy food environment, from 0 (worst) to 10 (best).	8.1	8.8
Access to Exercise Opportunities	Percentage of population with adequate access to locations for physical activity. 97.4%		93.1%
Chlamydia Incidence	Number of newly diagnosed chlamydia 748.5 cases per 100,000 population.		585.3
Teen Birth Rate	Number of births per 1,000 female population ages 15-19.		17.4
Adult Smoking	Percentage of adults who are current smokers (age-adjusted).	14%	



Clinical Care

Table 4: County clinical care indicators compared to state benchmarks

Indicators	Description	Sacramento	California
Primary Care Shortage Area	Presence of a primary care health professional shortage area within the county.	n/a	
Dental Care Shortage Area	Presence of a dental care health professional shortage area within the county.	No	n/a
Mental Health Care Shortage Area	Presence of a mental health professional shortage area within the county.	Yes	n/a
Medically Underserved Area	Presence of a medically underserved area within the county.	Yes	n/a
Mammography Screening	Percentage of female Medicare enrollees ages 65-74 that received an annual mammography screening.	37%	36%
Dentists	Dentists per 100,000 population.	78.3	87
Mental Health Providers	Mental health providers per 100,000 population.	385.9	373.4
Psychiatry Providers	Psychiatry providers per 100,000 population.	14.5	13.5
Specialty Care Providers	Specialty care providers (non-primary care physicians) per 100,000 population.		190
Primary Care Providers	Primary care physicians per 100,000 population + other primary care providers per 100,000 population.	155.4	147.3
Preventable Hospitalization	Preventable hospitalizations per 100,000 (age-sex- poverty adjusted)	1,042.8	948.3
COVID-19 Cumulative Full Vaccination Rate	Number of completed COVID-19 vaccinations per 100,000 population.	60,513.9	63,134.6

Socio-Economic and Demographic Factors

Table 5: County socio-economic and demographic factors indicators compared to state benchmarks

Indicators	Description	Sacramento	California
Community Safety			
Homicide Rate	Number of deaths due to homicide per 100,000 population.	5.9	4.8
Firearm Fatalities Rate	Number of deaths due to firearms per 100,000 population.	9.7	7.8
Violent Crime Rate	Number of reported violent crime offenses per 100,000 population.	508.2	420.9
Juvenile Arrest Rate	Felony juvenile arrests per 1,000 juveniles	2	2.1
Motor Vehicle Crash Death	Number of motor vehicle crash deaths per 100,000 population.	10.6	9.5
Education			
Some College	Percentage of adults ages 25-44 with some post-secondary education.		65.7%
High School Completion	Percentage of adults ages 25 and over with a high school diploma or equivalent. 87.7%		83.3%

Disconnected Youth	Percentage of teens and young adults ages 16-19 who are neither working nor in school.	8.2%	6.4%	
Third Grade Reading Level	Average grade level performance for 3rd graders on English Language Arts standardized tests 2.8			
Third Grade Math Level	Average grade level performance for 3rd graders on math standardized tests	2.7	2.7	
Employment				
Unemployment	Percentage of population ages 16 and older unemployed but seeking work.	3.7%	4%	
Family and Social Support				
Children in Single-Parent Households	Percentage of children that live in a household headed by single parent.	25.8%	22.5%	
Social Associations	Number of membership associations per 10,000 population.	7.3	5.9	
Residential Segregation (Non-White/White)	Index of dissimilarity where higher values indicate greater residential segregation between non-White and White county residents.	37.7	38	
Income				
Children Eligible for Free Lunch	Percentage of children enrolled in public schools that are eligible for free or reduced price lunch.	59.8%	59.4%	
Children in Poverty	Percentage of people under age 18 in poverty. 16%		15.6%	
Median Household Income	The income where half of households in a county earn more and half of households earn less. \$71,891		\$80,423	
Uninsured Population under 64	Percentage of population under age 65 without health insurance. 6.1%			
Income Inequality	Ratio of household income at the 80th percentile to income at the 20th percentile.	Ι 47		

Physical Environment

Table 6: County physical environment indicators compared to state benchmarks

Indicators	Description	Sacramento	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.	26.4%		
Severe Housing Cost Burden	Percentage of households that spend 50% or more of their household income on housing.			
Homeownership	Percentage of occupied housing units that are owned.	56.4%	54.8%	
Homelessness Rate	Number of homeless individuals per 100,000 population.	361.5	411.2	
Transit				
Households with no Vehicle Available	Percentage of occupied housing units that have no vehicles available.	6.6%	7.1%	
Long Commute - Driving Alone	Among workers who commute in their car alone, the percentage that commute more than 30 minutes.		42.2%	
Access to Public Transit	Percentage of population living near 72.9%		69.6%	

Air and Water Quality				
Percentage of population living in a census tract with a CalEnviroscreen 3.0 pollution burden score percentile of 50 or greater				
Air Pollution - Particulate Matter	Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5).	8.7	8.1	
Drinking Water Violations	Presence of health-related drinking water violations in the county.	Yes		

Primary Data Collection and Processing

Primary Data Collection

Input from the community served 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 Public Health Department. Data from these area-wide informants, coupled with socio-demographic data, were 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 service area 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 7 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 7: Key Informant List

Organization	Date	Number of Participants	Area of Expertise	Populations Served
Mercy General Hospital	05/17/2021	6	Acute Care Hospital: Healthcare services	All residents of Sacramento County
La Familia	05/19/2021	2	Behavioral, mental, physical health services; employment and education	Low income; medically underserved, racial or ethnic minorities; immigrants
Methodist Hospital	05/20/2021	7	Acute Care Hospital: Healthcare services	All residents of Sacramento County
Mercy Hospital of Folsom	05/21/2021	4	Acute Care Hospital: Healthcare services	All residents of Sacramento County
Sutter Medical Center Sacramento	05/27/2021	2	Acute Care Hospital: Healthcare services	All residents of Sacramento County
San Juan School Unified District	05/28/2021	1	Education	School-aged children
UC Davis Medical Center	06/01/2021	5	Acute Care Hospital: Healthcare services	All residents of Sacramento County
Mercy San Juan Medical Center	06/01/2021	9	Acute Care Hospital: Healthcare services	All residents of Sacramento County
Sacramento Native American Health Center	06/02/2021	1	FQHC: Healthcare services	Low income; medically underserved, racial or ethnic minorities
Sacramento Covered	06/04/2021	1	Healthcare outreach and enrollment	All residents of Sacramento County
El Dorado Community Health Center	06/07/2021	1	FQHC: Healthcare services	Low income, medically underserved, racial or ethnic minorities
People Reaching Out	06/08/2021	1	Youth development and prevention services	Low income, underserved communities
Slavic Assistance Center	06/10/2021	1	Health promotion, education and training	Low income Slavic immigrants and refugee individuals and families
Elk Grove Food Bank (Pt. Pleasant Methodist Church)	06/10/2021	1	Community based organization; social services	Low income, food insecure; seniors; racial and ethnic minorities
Asian Resource Center, Inc.	06/16/2021	1	Community based organization; education, training, employment assistance;	Immigrant, refugees in Sacramento County
Sacramento County Public Health	06/16/2021	1	Public Health	All residents of Sacramento County
Planned Parenthood	06/18/2021	1	Healthcare services	Low income, non- English speaking; racial or ethnic minorities

				Low income, medically
WellSpace Health	06/18/2021	1	FQHC: Healthcare services	underserved, racial or ethnic minorities
Sacramento Food Bank & Family Services	06/18/2021	1	Community based organization; social services	Low income, food insecure; immigrants and refugees
Mutual Assistance Center	07/02/2021	1	Community based organization; Social and economic infrastructure	Low income, medically underserved, racial or ethnic minorities
CA Endowment Building Healthy Communities	07/21/2021	13	Initiative addressing health inequities	South Sacramento; low income, racial and ethnic minorities
National Alliance on Mental Illness (NAMI)	08/02/2021	1	Mental health	All residents of Sacramento County
Sacramento Housing Alliance	08/03/2021	1	Housing, affordable housing, rent control	All residents of Sacramento County
Valley Vision	08/03/2021	1	Climate and environmental health	All residents of Sacramento County
Latino Leadership Council	08/03/2021	1	Undocumented/underinsured	Latino residents in South Natomas, Citrus Heights, Antelope
Yolo County Children's Alliance	08/03/2021	1	Child abuse prevention, advocacy	Families with youth in West Sacramento and Woodland
Anti-Recidivism Coalition	08/04/2021	1	Reentry and criminal justice reform	Reentry population in Sacramento County
Sacramento Steps Forward	08/10/2021	1	Homeless population	Residents of Sacramento County experiencing homelessness
World Relief Sacramento	08/11/2021	1	Refugee resettlement	Refugee community in Sacramento County
WEAVE	08/12/2021	1	Domestic violence, human trafficking	All residents of Sacramento County
Hope Cooperative	08/12/2021	1	Mental health, homeless	All residents of Sacramento County
My Sister's House	08/13/2021	1	Domestic violence	All residents of Sacramento County
Sac Breathe	08/13/2021	1	Lung health	All residents of Sacramento County
Sierra Health Foundation	08/13/2021	1	Community health	All residents of Sacramento County
Sacramento LGBT Community Center	08/17/2021	1	LGBTQ Community	LGBTQ Community in Sacramento County
Sacramento Area School Districts	08/17/2021	3	Youth and schools	All residents of Sacramento County
Lao Family Community Development Center	08/18/2021	1	Southeast Asian community (Hmong, Mien, Vietnamese, Cambodian)	Refugee community in Sacramento County
Sacramento ACT	08/24/2021	1	Faith, community advocacy	All residents of Sacramento County

Health Education Council	08/24/2021	1	Health disparities	All residents of Sacramento County
Ethnic Chambers of Commerce	08/25/2021	4	Economic development	All residents of Sacramento County
Cal Voices	08/25/2021	1	Mental health	All residents of Sacramento County
Public Housing Agency	08/25/2021	1	Coalition building, trauma healing	Young men of color in Sacramento County

Key Informant Interview Guide

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

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?
 - i. Probe for:
 - 1. Specific geographic areas?
 - 2. Specific populations served?
 - a. 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 impacted these health needs?
 - 2. INSERT MAP exercise: Please use the map provided to help our team understand where communities that experience the greatest health disparities live?
 - ii. 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

- a. Looking through the lens of equity, what are the challenges (barriers or drivers) to being healthy for the community as a whole?
- b. Do these inequities exist among certain population groups?
 - i. 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)
 - 4. 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 2016
 - 3. New partnerships/projects/funding

PARTICIPANT DRIVEN SAMPLING:

- What other people, groups or organizations would you recommend we speak to about the health of the community?
- Name 3 types of service providers that you would suggest we include in this work?
- Name 3 types of community members that you would recommend we speak to in this work?
- 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 of 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 8 contains a listing of community resident groups that contributed input to the CHNA. The table describes the organization hosting the focus group, the date it occurred, the total number of participants, and population represented by focus group members.

Table 8: Focus Group List

Hosting Organization	Date	Number of Participants	Population Represented
Sacramento Covered	08/02/2021	10	Financially insecure, unsheltered, medically underserved
La Familia Counseling Center	08/17/2021	8	Low income and medically underserved; Hispanic, immigrants
Mutual Assistance Network	08/17/2021	4	Financially insecure, immigrants, Hispanic, African American
Folsom Cordova Partnership	08/17/2021	1	Economically challenged individuals and families
WIND Youth Services	08/19/2021	5	Youth experiencing homelessness; LGBTQ, Hispanic, African American
Cancer Support Group (El Dorado Co.)	08/20/2021	4	Seniors; cancer survivors
Asian Resource Center, Inc.	08/24/2021	8	Asian community
Elk Grove HART	08/26/2021	2	Low income, housing insecure
Sacramento LGBT Community Center	08/28/2021	10	LGBTQ community
Opening Doors	08/30/2021	2	lmmigrants and refugees; Iraq; Afghanistan; Russian Ukraine
Sutter Medical Center, Sacramento, WellSpace ED Navigators	08/31/2021	3	Low income, people experiencing homeless

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 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 identify potential health need categories, special populations experiencing health issues, and available 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 (SHNs).

Community Service Provider Survey

A web-based survey was administered to community service providers (CSPs) who delivered health and social services to residents of the service area. CSPs affiliated with the nonprofit hospitals included in this report served as the initial sampling frame. An email recruitment message was sent to these CSPs detailing the survey's aims and inviting them to participate. A snowball sampling technique was used, encouraging participants to forward the recruitment message to other CSPs in their networks. The survey was designed using Qualtrics, an online survey platform, and was available for approximately two weeks. Individuals completing the survey were given the option to be acknowledged or remain anonymous. Those who indicated a desire to be acknowledged are listed here:

Bridget Alexander, Janine Bera, Jessica Brown, Kathilynn Carpenter, Sharon Chandler, Sunjung Cho, Kaitlynn DiCicco, Rosa Flores, Terri Galvan, Crystal Harding, Beth Hassett, Josiah Kitonga, Mai Lee, Kelsey Long, Bonnie Rea, Julie Rhoten, Shari Roeseler, Marbella Sala, Genelle Smiht, Dimitrius Stone, Nilda Valmores, and Gina Warren

After providing socio-demographic information including the county they served and their affiliated organization(s), survey respondents were shown a list of 12 potential health needs and asked to identify which were unmet health needs in their community. In order to reduce any confusion or ambiguity that could introduce bias, participants could scroll over each health need for a definition. Respondents were then asked to select which of the needs they identified as unmet in their community were the priority to address (up to three health needs). Upon selection of these priority unmet health needs, respondents were asked about the characteristics of each as it is expressed in their community. Depending upon the specific health need, respondents were shown a list of between 7-12 characteristics and asked to select all that applied. Respondents were also offered the opportunity to provide additional information about the health need in their community if it was not provided as a response option. Finally, a set of questions was asked about how the COVID-19 pandemic impacted the health needs of the community.

When the survey period was over, incomplete and duplicate responses were removed from the dataset and the survey responses were checked for accuracy. Descriptive statistics and frequencies were used to

summarize the health needs. This information was used along with other data sources to both identify and rank SHNs in the community and to describe how the health needs were expressed. Table 9 displays a summary of the survey for Sacramento County.

Table 9: Community Service Provider survey summary results of Sacramento County

Service Provider Survey Snapshot Sacramento County					
lealth Needs % Reporting					
Most Frequently Reported					
Access to Mental/Behavioral Health and Substance-Use Services	96.8				
Access to Basic Needs	96.8				
A Safe and Violence-Free Environment	83.9				
System Navigation	80.6				
Top 3/ Priority (Most Frequently Reported Characteristics)					
Access to Mental/Behavioral Health and Substance-Use Services. 77.4					
It's difficult for people to navigate for mental/behavioral healthcare.					
There aren't enough services here for those who are homeless and dealing with substance-use issues.					
• Additional services for those who are homeless and experiencing mental/behavioral health issues are needed.					
• There aren't enough mental health providers or treatment centers in the area (e.g., psychiatric beds, therapists,					
support groups).					
Substance-use is a problem in the area (e.g., use of opiates and n	nethamphetamine, prescription misuse).				
Access to Basic Needs	74.2				
• Lack of affordable housing is a significant issue in the area.					
The area needs additional low-income housing options.					
Services for homeless residents in the area are insufficient.					
It is difficult to find affordable childcare.					
Access to Quality Primary Care Health Services 32.3					
Patients have difficulty obtaining appointments outside of regular business hours.					
Wait-times for appointments are excessively long.					

Secondary Data Collection and Processing

The term "secondary data" refers to those quantitative variables used in this analysis that were obtained from third party sources. Secondary data were used to 1) inform the identification of Communities of Concern, 2) support the identification of health needs, and 3) describe the population and illuminate issues of health equity within the service area. This section details the data sources as well as the process for collecting secondary data and preparing them for analysis.

Community of Concern Identification Datasets

Two main secondary data sources were used in the identification of Communities of Concern: California Healthy Places Index (HPI)¹, derived from health factor indicators available at the US Census tract level, and mortality data from the California Department of Public Health (CDPH)² health outcome indicators available at the ZIP Code level. The CDPH mortality data reports the number of deaths that occurred in each ZIP Code from 2015-2019 due to each of the causes listed in Table 10.

Table 10: Mortality indicators used in Community of Concern Identification

Cause of Death	ICD 10 Codes
Alzheimer's disease	G30
Malignant neoplasms (cancers)	C00-C97
Chronic lower respiratory disease (CLRD)	J40-J47
Diabetes mellitus	E10-E14
Diseases of heart	100-109, 111, 113, 120-151
Essential hypertension and hypertensive renal disease	110, 112, 115
Accidents (unintentional injuries)	V01-X59, Y85-Y86
Chronic liver disease and cirrhosis	K70, K73-K74
Nephritis, nephrotic syndrome and nephrosis	N00-N07, N17-N19, N25-N27
Pneumonia and influenza	J09-J18
Cerebrovascular disease (stroke)	160-169
Intentional self-harm (suicide)	*U03, X60-X84, Y87.0

While the HPI dataset was used as-is, additional processing was required to prepare the mortality data for analysis. This included two main steps. First, ZIP Codes associated with PO Boxes were merged with the larger ZIP Codes in which they were located. Once this was completed, smoothed mortality rates were calculated for each resulting ZIP Code.

ZIP Code Consolidation

The mortality indicators used here included deaths reported for the ZIP Code at the decedent's place of residence. ZIP Codes are defined by the U.S. Postal Service as a single location (such as a PO Box), or a set of roads along which addresses are located. The roads that comprise such a ZIP Code may not form contiguous areas and do not match the areas used by the U.S. Census Bureau (the main source of population and demographic data in the United States) to report population. Instead of measuring the population along a collection of roads, the census reports population figures for distinct, largely contiguous areas. To support the analysis of ZIP Code data, the U.S. Census Bureau created ZIP Code Tabulation Areas (ZCTAs). ZCTAs are created by identifying the dominant ZIP Code for addresses in a given Census block (the smallest unit of census data available), and then grouping blocks with the same dominant ZIP Code into a corresponding ZCTA. The creation of ZCTAs allows us to identify population figures that make it possible to calculate mortality rates for each ZCTA.

¹ Public Health Alliance of Southern California. 2021. HPI_MasterFile_2021-04-22.zip. Data file. Retrieved 1 May 2021 from https://healthyplacesindex.org/wp-content/uploads/2021/04/HPI_MasterFile_2021-04-22.zip.

² State of California, Department of Public Health. 2021. California Comprehensive Master Death File (Static), 2015-2019.

The difference in the definition between mailing ZIP Codes and ZCTAs has two important implications for analyses of ZIP Code level data. First, ZCTAs are approximate representations of ZIP Codes rather than exact matches. While this is not ideal, it is nevertheless the nature of the data being analyzed. Second, not all ZIP Codes have corresponding ZCTAs. Some PO Box ZIP Codes or other unique ZIP Codes (such as a ZIP Code assigned to a single facility) may not have enough addressees residing in a given census block to ever result in the creation of a corresponding ZCTA. But residents whose mailing addresses are associated with these ZIP Codes will still show up in reported health outcome data. This means that rates cannot be calculated for these ZIP Codes individually because there are no matching ZCTA population figures.

To incorporate these patients into the analysis, the point location (latitude and longitude) of all ZIP Codes in California³ were compared to ZCTA boundaries.⁴ These unique ZIP Codes were then assigned to either the ZCTA in which they fell or, in the case of rural areas that are not completely covered by ZCTAs, the ZCTA closest to them. The CDPH information associated with these PO Boxes or unique ZIP Codes were then added to the ZCTAs to which they were assigned.

Rate Calculation and Smoothing

The next step in the analysis process was to calculate rates for each of these indicators. However, rather than calculating raw rates, empirical bayes smoothed rates (EBRs) were created for all indicators possible. Smoothed rates are considered preferable to raw rates for two main reasons. First, the small population of many ZCTAs meant that the rates calculated for these areas would be unstable. This problem is sometimes referred to as the small-number problem. Empirical bayes smoothing seeks to address this issue by adjusting the calculated rate for areas with small populations so that they more closely resemble the mean rate for the entire study area. The amount of this adjustment is greater in areas with smaller populations, and less in areas with larger populations.

Because the EBR were created for all ZCTAs in the state, ZCTAs with small populations that may have unstable high rates had their rates "shrunk" to more closely match the overall indicator rate for ZCTAs in the entire state. This adjustment can be substantial for ZCTAs with very small populations. The difference between raw rates and EBRs in ZCTAs with very large populations, on the other hand, is negligible. In this way, the stable rates in large-population ZIP Codes are preserved, and the unstable rates in smaller-population ZIP Codes are shrunk to more closely match the state norm. While this may not entirely resolve the small-number problem in all cases, it does make the comparison of the resulting rates more appropriate. Because the rate for each ZCTA is adjusted to some degree by the EBR process, this also has a secondary benefit of better preserving the privacy of patients within the ZCTAs.

EBRs were calculated for each mortality indicator using the total population figure reported for ZCTAs 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.

³ Datasheer, L.L.C. 2018. ZIP Code Database Free. Retrieved 16 Jul 2018 from http://www.Zip-Codes.com.

⁴ US Census Bureau. 2021. TIGER/Line Shapefile, 2019, 2010 nation, U.S., 2010 Census 5-Digit ZIP Code Tabulation Area (ZCTA5) National. Retrieved 9 Feb 2021 from https://www.census.gov/cgi-bin/geo/shapefiles/index.php.

⁵ Anselin, Luc. 2003. Rate Maps and Smoothing. Retrieved 14 Jan 2018 from http://www.dpi.inpe.br/gilberto/tutorials/software/geoda/tutorials/w6_rates_slides.pdf.

Significant Health Need Identification Dataset

The second main set of data used in the CHNA includes the health factor and health outcome indicators used to identify significant health needs (SHNs). The selection of these indicators was guided by the previously identified conceptual model. Table 11 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 11: Health factor and health outcome indicators used in health need identification

Conceptual	Model Alignmer	nt	Indicator	Data Source	Time Period
		Infant Mortality	Infant Mortality	County Health Rankings	2013 - 2019
			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 Disease Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
			Diabetes Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
	Health Outcomes Length of Life	Life Expectancy	Heart Disease Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
Health			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 2021-11-17
			COVID-19 Case Fatality	CDPH COVID-19 Time-Series Metrics by County and State	Collected on 2021-11-17
			Alzheimer's Disease Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019
			Influenza and Pneumonia Mortality	CDPH California Vital Data (Cal-ViDa)	2015 - 2019

			Diabetes Prevalence	County Health Rankings	2017
			Low Birthweight	County Health Rankings	2013 - 2019
			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
Health	Quality of Life	Morbidity	Frequent Physical Distress	County Health Rankings	2018
Outcomes	Quality of Life	Wiorbialty	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 Cumulative Incidence	CDPH COVID-19 Time-Series Metrics by County and State	Collected on 2021-11-17
			Asthma ED Rates	Tracking California	2018
			Asthma ED Rates for Children	Tracking California	2018
		Alcohol and Drug Use	Excessive Drinking	County Health Rankings	2018
			Drug-Induced Death	CDPH 2021 County Health Status Profiles	2017 - 2019
			Adult Obesity	County Health Rankings	2017
			Physical Inactivity	County Health Rankings	2017
Health Factors Health Behavior		Diet and	Limited Access to Healthy Foods	County Health Rankings	2015
	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

			Primary Care	U.S. Heath Resources and	2021
		Shortage Area	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	Mammography Screening	County Health Rankings	2018
		Care	Dentists	County Health Rankings	2019
	Clinical Care		Mental Health Providers	County Health Rankings	2020
	Clinical Care		Psychiatry Providers	County Health Rankings	2020
			Specialty Care Providers	County Health Rankings	2020
			Primary Care Providers	County Health Rankings	2018; 2020
Health		Quality Care	Preventable Hospitalization	California Office of Statewide Health Planning and Development Prevention Quality Indicators for California	2019
Factors			COVID-19 Cumulative Full Vaccination Rate	CDPH COVID-19 Vaccine Progress Dashboard Data	Collected on 2021-11-17
			Homicide Rate	County Health Rankings	2013 - 2019
			Firearm Fatalities Rate	County Health Rankings	2015 - 2019
			Violent Crime Rate	County Health Rankings	2014 & 2016
Socio- Economic 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
	Demographic		Some College	County Health Rankings	2015 - 2019
	Factors		High School Completion	County Health Rankings	2015 - 2019
		Education	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-		2045 2040
		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
		Income	Median Household Income	County Health Rankings	2019
			Uninsured Population under 64	County Health Rankings	2018
			Income Inequality	County Health Rankings	2015 - 2019
		Housing and Transit	Severe Housing Problems	County Health Rankings	2013 - 2017
			Severe Housing Cost Burden	County Health Rankings	2015 - 2019
Health Factors			Homeownership	County Health Rankings	2015 - 2019
			Homelessness Rate	US Dept. of Housing and Urban Development 2020 Annual Homeless Assessment Report	2020
	Physical		Households with no Vehicle Available	2019 American Community Survey 5-year estimate variable DP04_0058PE	2015 - 2019
	Physical Environment		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	
		Air and Water Quality	Pollution Burden Percent	California Office of Environmental Health Hazard Assessment	2018
			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 Rankings⁶ 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 served 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 12.

Table 12: Sources and time periods for indicators obtained from County Health Rankings.

CHR Indicator	Time Period	Data Source
Infant Mortality	2013 - 2019	National Center for Health Statistics - Mortality Files
Child Mortality	2016 - 2019	National Center for Health Statistics - Mortality Files
Life Expectancy	2017 - 2019	National Center for Health Statistics - Mortality Files
Premature Age-Adjusted Mortality	2017 - 2019	National Center for Health Statistics - Mortality Files
Premature Death	2017 - 2019	National Center for Health Statistics - Mortality Files
Diabetes Prevalence	2017	United States Diabetes Surveillance System
Low Birthweight	2013 - 2019	National Center for Health Statistics - Natality files
HIV Prevalence	2018	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
Poor Mental Health Days	2018	Behavioral Risk Factor Surveillance System
Frequent Mental Distress	2018	Behavioral Risk Factor Surveillance System
Poor Physical Health Days	2018	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 Opportunities	2010 & 2019	Business Analyst, Delorme map data, ESRI, & US Census 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

⁶ 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.countryhealthrankings.org/app/california/2021/downloads.

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
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-ViDa⁷ 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.

COVID-19 Data

Data on the cumulative number of cases and deaths⁸ and completed vaccinations⁹ 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 Profiles¹⁰ and report age-adjusted deaths per 100,000.

U.S. Health Resources and Services Administration

Indicators related to the availability of healthcare providers were obtained from the Health Resources and Services Administration¹¹ (HRSA). These included Dental, Mental Health, and Primary Care Health 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.

⁷ 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/.

⁸ State of California, Department of Public Health. 2021. Statewide COVID-19 Cases Deaths Tests. Retrieved 17 November 2021 from https://data.chhs.ca.gov/dataset/f333528b-4d38-4814-bebb-12db1f10f535/resource/046cdd2b-31e5-4d34-9ed3-b48cdbc4be7a/download/COVID-19cases_test.csv.

⁹ State of California, Department of Public Health. 2021. COVID-19 Vaccine Progress Dashboard Data. Retrieved 24 November 2021 from https://data.chhs.ca.gov/dataset/e283ee5a-cf18-4f20-a92c-ee94a2866ccd/resource/130d7ba2-b6eb-438d-a412-741bde207e1c/download/COVID-19vaccinesbycounty.csv.

⁹ State of California, Department of Public Health. 2021. COVID-19 Vaccine Progress Dashboard Data. Retrieved 24 November 2021 from https://data.chhs.ca.gov/dataset/e283ee5a-cf18-4f20-a92c-ee94a2866ccd/resource/130d7ba2-b6eb-438d-a412-741bde207e1c/download/COVID-19vaccinesbycounty.csv.

¹⁰ 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 on 21 Jul 2021 from https://www.cdph.ca.gov/Programs/CHSI/CDPH%20Document%20Library/CHSP_2021_Tables_1-29_04.16.2021.xlsx.

¹¹ 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.

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 number 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 this indicator represents a subset of specialty care providers rather than a separate group.

California Cancer Registry

Data obtained from the California Cancer Registry¹² 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.

Tracking California

Data on emergency department visits rates for all ages as well as children aged 5 to 17 were obtained from Tracking California.¹³ These data report 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 were 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.

¹² California Cancer Registry. 2021. Age-Adjusted Invasive Cancer Incidence Rates in California. Retrieved on 22 Jan 2021 from https://www.cancer-rates.info/ca/.

¹³ Tracking California, Public Health Institute. 2021. Asthma Related Emergency Department & Hospitalization data. Retrieved on 24 Jun 2021 from www.trackingcalifornia.org/asthma/query.

California Office of Environmental Health Hazard Assessment

Data used to calculate the pollution burden percent indicator were obtained from the CalEnviroscreen 3.0^{14} 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.¹⁵ 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. 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 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 Report¹⁷ were used to calculate homelessness rates for the counties and states. 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. The CoC for Sacramento County encompasses the entire county and does not extend beyond its borders.

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

¹⁴ California Office of Environmental Health Hazard Assessment. 2018. CalEnviroScreen 3.0. Retrieved on 22 Jan 2021 from https://oehha.ca.gov/calenviroscreen/maps-data.

¹⁵ Office of Statewide Health Planning and Development. 2021. Prevention Quality Indicators (PQI) for California. Data files for Statewide and County. Retrieved on 12 Mar 2021 from https://oshpd.ca.gov/data-and-reports/healthcare-quality/ahrq-quality-indicators/.

¹⁶ California Department of Justice, OpenJustice. 2021. Criminal Justice Data: Arrests. Retrieved on 17 Jun 2021 from https://data-openjustice.doj.ca.gov/sites/default/files/dataset/2020-07/OnlineArrestData1980-2019.csv.

¹⁷ US Department of Housing and Urban Development. 2021. 2020 Annual Homeless Assessment Report: 2007 - 2020 Point-in-Time Estimates by CoC. Retrieved on 14 Jul 2021 from https://www.huduser.gov/portal/sites/default/files/xls/2007-2020-PIT-Estimates-by-CoC.xlsx.

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 Census¹⁸, 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 TidyTransit¹⁹ library for the R statistical programming language.²⁰ 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: OpenMobilityData²¹, Transitland²², Transitwiki.org²³, and Santa Ynez Valley Transit.²⁴ 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 sf²⁵ 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 stops' buffer 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 three main analytical stages. First, secondary health outcome and health factor data were combined with area-wide key informant interviews to help identify Communities of Concern. These Communities of Concern could potentially include geographic regions as well as specific sub-populations bearing disproportionate health burdens. This information was used to focus the remaining interview and focus-group collection efforts on those areas and subpopulations. Next, the resulting data, along with the results from the Community Service Provider survey, were combined with secondary health need identification data to identify SHNs within the service area. Finally, primary data were used to prioritize those identified SHNs. The specific details for these analytical steps are given in the following three sections.

¹⁸ US Census Bureau. 2011. Census Blocks with Population and Housing Counts. Retrieved on 7 Jun 2021 from https://www2.census.gov/geo/tiger/TIGER2010BLKPOPHU/.

¹⁹ 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. https://CRAN.R-project.org/package=tidytransit.

²⁰ 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/.

²¹ OpenMobilityData. 2021. California, USA. Retrieved all feeds listed on 31 May to 1 June 2021 from https://openmobilitydata.org/l/67-california-usa.

²² Transitland. 2021. Transitland Operators. Retrieved all operators with California locations on 31 May to 1 June 2021 from https://www.transit.land/operators.

²³ 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.

²⁴ Santa Ynez Valley Transit. GTFS Files. Retrieved on 1 Jun 2021 from http://www.cityofsolvang.com/DocumentCenter/View/2756/syvt_gtfs_011921.

²⁵ 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.

Community of Concern Identification

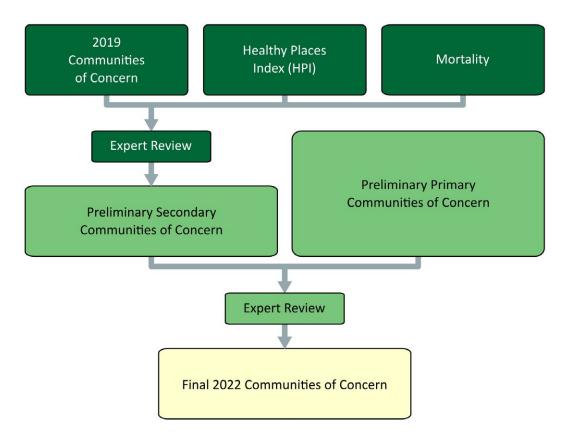


Figure 3: Community of Concern identification process

As illustrated in Figure 3, 2022 Communities of Concern were identified through a process that drew upon both primary and secondary data. Three main secondary data sources were used in this analysis: Communities of Concern identified in the 2019 CHNA; the census tract-level California Healthy Places Index (HPI); and the CDPH ZCTA-level mortality data.

An evaluation procedure was developed for each of these datasets and applied to each ZCTA within the service area. The following secondary data selection criteria were used to identify preliminary Communities of Concern.

2019 Community of Concern

A ZCTA was included if it was included in the 2019 CHNA Community of Concern list for the service. This was done to allow greater continuity between CHNA rounds and reflects the work of the hospital systems' orientation to serve these disadvantaged communities.

Healthy Places Index (HPI)

A ZCTA was included if it intersected a census tract whose HPI value fell within the lowest 20% of those in the service area. These census tracts represent areas with consistently high concentrations of demographic subgroups identified in the research literature as being more likely to experience health-related disadvantages.

CDPH Mortality Data

The review of ZCTAs based on mortality data utilized the ZCTA-level CDPH health outcome indicators described previously. These indicators were heart disease, cancer, stroke, CLD, Alzheimer's disease, unintentional injuries, diabetes, influenza and pneumonia, chronic liver disease, hypertension, suicide, and kidney disease mortality rates per 100,000 people. The number of times each ZCTA's rates for these indicators fell within the top 20% in the service area was counted. Those ZCTAs whose counted values exceeded the 80th percentile for all of the ZCTAs in the service area met the Community of Concern mortality selection criteria.

Integration of Secondary Criteria

Any ZCTA that met any of the three selection criteria (2019 Community of Concern, HPI) was reviewed for inclusion as a 2022 Community of Concern, with greater weight given to those ZCTAs meeting two or more of the selection criteria. An additional round of expert review was applied to determine if any other ZCTAs not thus far indicated should be included based on some other unanticipated secondary data consideration. This list then became the final Preliminary Secondary Communities of Concern.

Primary Communities of Concern

Primary Communities of Concern were identified by reviewing the geographic locations or population subgroups that were consistently identified by the area-wide primary data sources.

Integration of Preliminary Primary and Secondary Communities of Concern

Any ZCTA that was identified in either the Preliminary Primary or Secondary Community of Concern list was considered for inclusion as a 2022 Community of Concern. An additional round of expert review was then applied to determine if, based on any primary or secondary data consideration, any final adjustments should be made to this list. The resulting set of ZCTAs was then used as the final 2022 Communities of Concern.

Significant Health Need Identification

The general methods through which SHNs were identified are shown in Figure 4 and described here in greater detail. The first step in this process was to identify a set of PHNs from which SHNs 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 13.

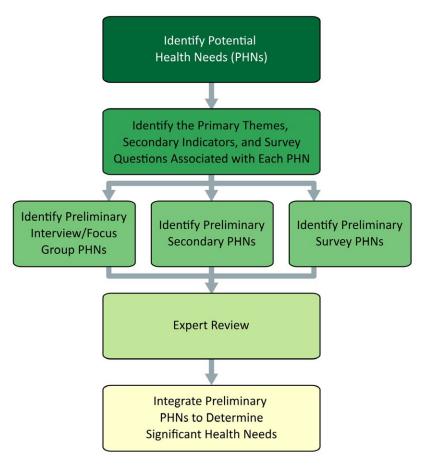


Figure 4: Significant health need identification process

Table 13: 2022 Potential Health Needs

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
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 Table 14 through Table 25. 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 14: Primary themes and secondary indicators associated with PHN1

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

Access to Quality Primary Care Health Services

Table 15: Primary themes and secondary indicators associated with PHN2

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

Long Commute - Driving Alone

Access to Public Transit

Active Living and Healthy Eating

Table 16: Primary themes and secondary indicators associated with PHN3

Primary Data Themes	Secondary Indicators
 There are food deserts in the area where fresh, 	Life Expectancy
unprocessed foods are not available.	 Premature Age-Adjusted Mortality
 Fresh, unprocessed foods are unaffordable. 	 Premature Death
 Food insecurity is an issue here. 	 Stroke Mortality
Students need healthier food options in schools.	 Diabetes Mortality
The built environment doesn't support physical activity (e.g.,	 Heart Disease Mortality
neighborhoods aren't walk-able, roads aren't bike-friendly, or parks are 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	 Diabetes Prevalence
(e.g., gym memberships, recreational activity programming.	 Poor Mental Health Days
There aren't enough recreational opportunities in the area	 Frequent Mental Distress
(e.g., organized activities, youth sports leagues).	 Poor Physical Health Days
The food available in local homeless shelters and food	 Frequent Physical Distress
banks is not 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 (Non-White/White)
	Income Inequality
	 Severe Housing Cost Burden
	 Homelessness Rate
	1

Safe and Violence-Free Environment

Table 17: Primary themes and secondary indicators associated with PHN4

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

Access to Dental Care and Preventive Services

Table 18: Primary themes and secondary indicators associated with PHN5

Primary Data 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 Dentists
People in the area have to travel to receive dental care.	Residential Segregation
Dental care here is unaffordable, even if you have insurance.	(Non-White/White)
	Income Inequality
	 Homelessness Rate

Healthy Physical Environment

Table 19: Primary themes and secondary indicators associated with PHN6

Primary Data 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	Chronic Lower Respiratory Disease Mortality
the air quality.	Hypertension Mortality
 Industrial activity in the area harms the air quality. 	Cancer Mortality
 Heavy traffic in the area harms the air quality. 	Frequent Mental Distress
 Wildfires in the region harm the air quality. 	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 20: Primary themes and secondary indicators associated with PHN7

Primary Data Themes	Secondary Indicators	
 Lack of affordable housing is a significant issue in the area. The area needs additional low-income housing options. Poverty in the county is high. Many people in the area do not make a living wage. Employment opportunities in the area are limited. Services for homeless residents in the area are insufficient. Services are inaccessible for Spanish-speaking and immigrant residents. Many residents struggle with food insecurity. It is difficult to find affordable childcare. Educational attainment in the area is low. 	 Infant Mortality Child Mortality Life Expectancy Premature Age-Adjusted Mortality Premature Death Hypertension Mortality COVID-19 Mortality COVID-19 Case Fatality Diabetes Prevalence Low Birthweight 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 21: Primary themes and secondary indicators associated with PHN8

Primary Data 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 transportation to get around. 	Households with no Vehicle Available
Public transportation is more difficult for some to residents to use	Long Commute-Driving Alone
(e.g., non-English speakers, seniors, parents with young children).	Access to Public Transit
There aren't enough taxi and ride-share options (e.g.,Uber, Lyft).	Access to Fubile Hallsit

Access to Specialty and Extended Care

Table 22: Primary themes and secondary indicators associated with PHN9

Primary Data Themes	Secondary Indicators	
 Primary Data Themes Wait-times for specialist appointments are excessively long. It is difficult to recruit and retain specialists in the area. Not all specialty care is covered by insurance. Out-of-pocket costs for specialty and extended care are too high. People have to travel to reach specialists. Too few specialty and extended care providers accept Medi-Cal. The area needs more extended care options for the aging population (e.g. skilled nursing 	Secondary Indicators Infant Mortality Life Expectancy Premature Age-Adjusted Mortality Premature Death Stroke Mortality Chronic Lower Respiratory Disease Mortality Diabetes Mortality Heart Disease Mortality Hypertension Mortality Cancer Mortality	 Diabetes Prevalence Poor Mental Health Days Frequent Mental Distress Poor Physical Health Days Frequent Physical Distress Poor or Fair Health Lung Cancer Prevalence Asthma ED Rates Asthma ED Rates for Children Drug-Induced Death Psychiatry Providers Specialty Care Providers
·		 Psychiatry Providers Specialty Care Providers Preventable Hospitalization Residential Segregation (Non-White/White) Income Inequality Homelessness Rate

Injury and Disease Prevention and Management

Table 23: Primary themes and secondary indicators associated with PHN10

Primary Data Themes	Primary	Data T	hemes
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- There isn't really a focus on prevention around here.
- Preventive health services for women are needed (e.g., breast and cervical cancer screening).
- There should be a greater focus on chronic disease prevention (e.g. diabetes, heart disease).
- Vaccination rates are lower than they need to be.
- Health education in the schools needs to be improved.
- Additional HIV and STI prevention efforts are needed.
- The community needs nutrition education opportunities.
- Schools should offer better sexual health education.
- Prevention efforts need to be focused on specific populations in the community (e.g. youth, Spanishspeaking residents, the elderly, LGBTQ individuals, immigrants).
- Patients need to be better connected to service providers (e.g. case management, patient navigation, or centralized service provision).

Secondary Indicators

- Infant Mortality
- Child Mortality
- Stroke Mortality
- Chronic Lower Respiratory
 Disease Mortality
- Diabetes Mortality
- Heart Disease Mortality
- Hypertension Mortality
- Liver Disease Mortality
- Kidney Disease Mortality
- Suicide Mortality
- Unintentional Injuries Mortality
- COVID-19 Mortality
- 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
- 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 24: Primary themes and secondary indicators associated with PHN11

- Health and social service providers operate in silos; we need cross-sector connection.
- Building community connections doesn't seem like a focus in the area.
- Relations between law enforcement and the community need to be improved.
- The community needs to invest more in the local public schools.
- There isn't enough funding for social services in the county.
- People in the community face discrimination from local service providers.
- City and county leaders need to work together.

Secondary Indicators

- Infant Mortality
- Child Mortality
- Life Expectancy
- Premature Age-Adjusted Mortality
- Premature Death
- Stroke Mortality
- Diabetes Mortality
- Heart Disease Mortality
- Hypertension Mortality
- Suicide Mortality
- 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
- 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 25: Primary themes and secondary indicators associated with PHN12

Primary Data Themes	Secondary Indicators
 People may not be aware of the services they are eligible for. 	There are no secondary indicators associated with this PHN.
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 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 26 lists each secondary indicator and describes the comparison made to the benchmark to determine if it was problematic.

Table 26: 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
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
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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
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 SHNs. This was done by calculating the percentage of all secondary indicators associated with a given PHN that were identified as performing poorly within the service area. While all PHNs represented actual health needs within the service area 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: any of the survey respondents mentioned a theme associated with a PHN, or if at least 10%, 20%, 30%, 40%, 50%, 60%, 70%, or 80% of the respondents mentioned an associated theme. Finally, similar thresholds (any mention, 10%, 20%, 30%, 40%, 50%, 60%, 70%, or 80%) were also applied to the percent of survey respondents selecting a particular health need as one of the top health needs in the service area.

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 service area. 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 service area. 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 SHN if 50% of the associated quantitative indicators were identified as performing poorly, as a preliminary qualitative SHN if it was identified by 50% or more of the primary sources as performing poorly, and as a preliminary survey SHN if it was identified by at least 50% of survey respondents. Finally, a PHN was selected as a SHN if it was included as a preliminary SHN in two of these three categories.

Significant Health Need Prioritization

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

First, the total percentage of all primary data sources that mentioned themes associated with a SHN at any point was calculated. This number was taken to represent how broadly a given SHN was recognized within the community. Next, the percentage of times a theme associated with a SHN 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. Finally, the number of times each health need was selected as one of the top health needs by survey respondents was also included.

These three 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 27: Resources potentially available to meet health needs

Organization Information	Significant Health Needs													
Name	Primary ZIP Code	Website	Access to Mental/ Behavioral Health and Substance- services	Access to Basic Needs Such as Housing, Jobs, and Food	Access to Quality Primary Care Health Services	System Navigation Injury and Disease Prevention and	Management Health Equity: Equal Access to Opportunities	Active Living and Bating Healthy Eating	Safe and Violence- Free Environment	Increased Community Connections	Access to Specialty and Extended Care	ot ssessA seeds I Needs	Access to Dental Care and Preventive Services	Healthy Physical Environment
3 Strands Global	95762	www.3strandsglobalfoundation. org							×	×				
African American Perinatal Health – Sacramento County Public Health	Whole county	dhs.saccounty.net/PUB/Pages/ African-American-Perinatal- Health-Program/SP-African- American-Perinatal-Health- Program				×					×			
Agency on Aging Area 4	95815	agencyonaging4.org		×		×			×	×	×			
Alchemist Community Development Corporation	95814	alchemistcdc.org	×		×			×		×				
All Nations Church of God in Christ	95817	www.ancogic.org		×						×				
ALS Association— Greater Sacramento Chapter	95825	websac.alsa.org				× ×				×				
Alternatives Pregnancy Center	95825	alternativespc.org	×		×						×			
Alzheimer's Association	95815	www.alz.org/norcal	×							×				
American Cancer Society	95815	www.cancer.org/about-us/local/ california				×		×		×	×			

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www.heart.org/en/affiliates/ california/sacramento	www.lung.org/research/sota/ city-rankings/states/california/ sacramento	www.redcross.org/local/ california/gold-country/about-us/ locations/sierra-delta-chapter	arpf.org/what-we-do/programs/ health-recreation/	www.acacsac.org	www.antiochprogressivechurch. org	www.antirecidivism.org/our- programs/	www.mutualassistance.org/ arcade-community-center	www.arcohe.net	www.imstillhere.org/artz/artz- program	www.accsv.org	apccounseling.org	asianresources.org	www.bayanihanclinic.com
95811	95814	95815	95608	95823	95832	95816	95821	95638	95826	95831	95820	95824 95814 95610	95827
American Heart Association — Sacramento	American Lung Association - Sacramento	American Red Cross	American River Park Foundation program- Health and Recreation	Another Choice Another Chance	Antioch Progressive Baptist Church	Anti Recidivism Coalition	Arcade Community Center	Arcohe Union School District	ARTZ Artists for Alzheimer's	Asian Community Center	Asian Pacific Community Counseling (APCC)	Asian Resources, Inc.	Bayanihan Clinic

Big Brothers Big Sisters of the Greater Sacramento Area	95825	bbbs-sac.org	×						×	×			
Bike Lab	95630	www.bikelabsac.org/about						×	×	×			
Birth and Beyond Home Visitation— WellSpace Health	95660	www.wellspacehealth.org/ location/north-highlands- community-health-center-birth- and-beyond	×	×	×	×						×	
Bishop Gallegos Maternity Home	95763	bgmhsacramento.org		×					×		×		
Black Child Legacy Campaign	95833	blackchildlegacy.org		×			×						
Black Infant Health Program— Sacramento County Public Health	Whole county	dhs.saccounty.net/PUB/Pages/ Black-Infant-Health-Program/SP- Black-Infant-Health-Program				×	×						
Boys and Girls Clubs of Greater Sacramento	95824	bgcsac.org	×	×				×	×	×			
Breathe California of Sacramento Region	95814	sacbreathe.org			×		×			×			×
Brother To Brother	95838	www.brother2brothermentoring. org/our-leadership	×							×			
Building Healthy Communities	95820	sacbhc.org						×	×	×			
C.O.R.E. Medical Clinic	95816	www.coremedicalclinic.com	×		×	×							
California Bridge Program	94607	cabridge.org/solution/our-work	×			×							

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dhs.saccounty.net/PUB/Pages/ California-Childrens-Services/SP- California-Childrens-Services	www.foodlink.org	www.calendow.org	healthcollaborative.org/staand- gold-country-rural-regional- project	calyouthconn.org	www.camprecreation.org	www.calvoices.org	www.capcityaidsfund.org	www.starsinc.com/sacramento- county	carrington.edu/location/ sacramento-dental-hygiene-clinic	www.scd.org/catholic-charities- and-social-concerns/catholic- charities	www.cchatsacramento.com	www.centerusd.org
Whole	95828	Sacramento County	93711	95814	95662	95825	95816	95821	95826	95818	95670	95843
California Children's Services – Sacramento County Public Health	California Emergency Food Link	California Endowment Building Health Communities	California Health Collaborative- STAAND-Gold County Rural Regional Project	California Youth Connection	Camp ReCreation	Cal Voices	Capital City AIDS Fund	Capital Star Community Services- Sacramento County	Carrington College— Dental Hygiene Clinic (916) 361-5168	Catholic Charities of Sacramento, Inc.	CCHAT Center Sacramento	Center Joint Unified School District

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www.cdfb.og	dhs.saccounty.net/PUB/Pages/ Communicable-Disease-Control/ GI-TB-Control	www.thecapcenter.org	www.child-familyinstitute.org/ home.htm	dhs.saccounty.net/PUB/CHDP/ Pages/CHDP-Home	www.crhkids.org	christycaresoutreach.org	citrusheightshart.org	citychurchsac.org	www.cityofsacramento.org/ ParksandRec/Parks/Specialty- Parks/Community-Gardens	www.clarashouse.org	
98811	Whole county	95660	95838	Whole county	95821	95758	95610	95817	Sacramento County	95816	
Central Downtown Food Basket	Chest Clinic/ Tuberculosis Control – Sacramento County Public Health	Child Abuse Prevention Center	Child and Family Institute (CFI)	Child Health & Disability Prevention – Sacramento County Public Health	Children's Receiving Home of Sacramento	Christy Cares Outreach	Citrus Heights Homeless Assistance Resource Team (HART)	City Church of Sacramento	City of Sacramento Community Gardens	Clara's House	Clinica Tepati

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cashsac.org	communitylinkcr.org	www.communityresourceproject. org/Services/Health/WIC	dhs.saccounty.net/PUB/ Pages/Comprehensive- Perinatal-Services-Program/ SP-Comprehensive-Perinatal- Services-Program	www.yourcsd.com/170/About	www.fcusd.org/domain/993	crpd.com	cottagehousing.org	www.ican-foundation.org	www.kidshome.org/what-we-do/ crisis-nursery-program/	www.crhss.org	www.deloro.org
95816	95826	95838	Whole county	95624	95670	95670	95811	95811	95821	92856	95610
Community Against Sexual Harm (CASH)	Community Link (Community Services Planning Council)	Community Resources Project/WIC	Comprehensive Perinatal Services Program— Sacramento County Public Health	Consumnes Community Services District (CSD)-Elk Grove Parks and Recreation	Cordova Lane Center—FCUSD	Cordova Recreation and Park District	Cottage Housing, Inc.	Crime Victims Assistance Network (iCAN)	Crisis Nursery Program – Sac Children's Home	Cristo Rey High School	Del Oro Caregiver Resource Center

Del Paso Union Baptist Church	95838	delpasounionbaptistchurch.org	urch.org							×	×			
	95819 95630 95608 95823	www.dignityhealth.org				×	×	×	×			×		
	Whole	dhs.saccounty.net/PUB/Pages/ Epidemiology/SP-Epidemiology. aspx	/Pages/ emiology.					×						
	95759	www.dartsac.com						×			×			
	92608	www.sacnaturecenter.net	let						×		×			
	95667	www.edcchc.org		×		×							×	
	95811 95834	www.elhogarinc.org		×	×					×	×			
	95825	www.elicahealth.org		×		×	×	×			×		×	
	95758	www.elkgrovecity.org/home	от							×	×			
	95624	www.yourcsd.com/968/Fire	/Fire							×	×			
	95624	elkgrovefoodbank.org			×						×			
Elk Grove Food Bank (Point Pleasant United Methodist Church)	95757	elkgrovefoodbank.org/ supporters/partner-churches	ırches		×					×	×			
Elk Grove Police Department	95758	www.elkgrovepd.org								×				
Elk Grove Unified School District	95624	www.egusd.net		×	×	×			×	×				
Elverta Joint Elementary School District	95626	www.ejesd.net							×					

Whole County	www.eskaton.org	×	×	×					×			
95747	everyonemattersministries.com		×						×			
95838	www.mutualassistance.org/ firehouse-community-center						×		×			
95833	www.first5sacramento.net	×	×	×		×	×	×	×			
95670	www.thefccp.org	×	×	×					×			
95818	www.foodliteracycenter.org		×				×		×			
95841	fosterhopesac.org		×						×			
95814	www.nextmovesacramento.org/ francis-house-center		×						×			
95820	www.freshersacramento.com		×				×		×			
95820	www.fruitridgecc.org		×				×					
95632	www.galt.k12.ca.us						×					
95835	www.gnna.info								×			
95817	www.thegenderhealthcenter.org/ gender-health-center-2/	×	×	×	×	×		×	×			
95819	www.gotrsac.org						×		×			
95823	sacgrs.org/			×		×			×	×		

Goodwill— Sacramento Valley and Northern Nevada	95826	www.goodwillsacto.org		×					×			
Grace City— Formally The Grace Network	95851	gracecitysac.org/						×				
Greater Sacramento Urban League	95838	www.gsul.org		×					×			
Greater Sacramento Valley and Nevada Arthritis Foundation	95815	www.arthritis.org				×	×		×			
Guest House Homeless Clinic	95811	www.elhogarinc.org/guest- house-homelessclinic	×	×								
Harm Reduction Services (HRS)	95817	hrssac.org	×		× ×	×						
HART Carmichael	95609	carmichaelhart.org	×	×	×						×	
HART Citrus Heights	95610	citrusheightshart.org/resources/ navigator		×	×	.,					×	
HART Elk Grove	95759	www.elkgrovehart.org		×							×	
	95823											
Health and Life Organization (HALO Cares) – Sacramento Community Clinic	95815 95827 95834 95660	halocares.org	×		×	×				×		
Health Education Council	95831	healthedcouncil.org					×	×	×			
Health Rights Hotline	95814	lawyers.justia.com/legalservices/ health-rights-hotline-11068		×	×	.,						
Health Tech Academy— Valley High School	95838	vhs.egusd.net/programs/ pathways/health-tech		×								

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doingwhateverittakes.org	www.helping-hearts.org	heritageoakshospital.com	dhs.saccounty.net/PUB/ SexualHealthPromotionUnit/ Pages/GI-HIV-STD-Prevention- Program.aspx	dhs.saccounty.net/PUB/ SexualHealthPromotionUnit/ Pages/GI-STD-Control.aspx	hopecoop.org/	houseofhopeministrysacramento. org	dcfas.saccounty.net/Admin/ Pages/HSCC/BC-Human- Services-Coordinating-Council- HSCC.aspx	www.imaniclinic.org	dhs.saccounty.net/PUB/Pages/ Immunization-Assistance- Program/Immunization- Assistance-Program-(IAP).aspx	www.interimhealthcare.com/ sacramentoca/home	www.rescue.org/united-states/ sacramento-ca
95838, 95821	95827	95841	95828 95660 95816 95820 95825 95811 95813	Whole county	95825	95822	95823	95817	Whole county	95825	95825
Heartland Child and Family Services	Helping Hearts Foundation Inc.	Heritage Oaks Hospital	HIV/STD Prevention Program	HIV/STD Surveillance - Sacramento County Public Health	Hope Cooperative (aka TLCS, Inc.)	House of Hope Ministry	Human Services Coordinating Council (HSCC)	Imani Clinic	Immunization Assistance Program – Sacramento County Public Health	Interim HealthCare	International Rescue Committee

lu-Mien Community Services (IMCS)	95824	www.unitediumien.org	×		×		×		×	×			
Johnston Community Center (also referred to as "Johnson" Community Center)	95815	www.mutualassistance.org/ johnson-center	×	×			×	^	×	×			
Jubilare Evangelistic Ministries (JEM)	95834	jubilare.com							×	×			
Junior League of Sacramento	95825	www.jlsac.org								×			
Kaiser Permanente Sacramento Medical Center	95825	healthy.kaiserpermanente. org/northern-california/ facilities/sacramento-medical- center-100330			×	×	×	^	×		×		
Kaiser Permanente South Sacramento Medical Center	95823	healthy.kaiserpermanente.org/ northern-california/facilities/ south-sacramento-medical- center-100320	×		×	×	×	^	×		×		
KidsFirst Auburn	95603	www.kidsfirstnow.org	×	×		×			×	×			
La Familia Counseling Center	95820	lafcc.org	×	×	×		×	^	× ×	×			
Lao Family Community Development, Inc.	95823	www.lfcd.org		×				^	× ×	×			
Latino Coalition for a Healthy California	95814	lchc.org			×		×						
Latino Leadership Council	95603	www.latinoleadershipcouncil.org								×			
Law Enforcement Chaplaincy Sacramento	95821	sacchaplains.com	×			×			×	×			

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dhs.saccounty.net/PUB/ Pages/Childhood-Illness- Injury-Prevention-Program/ LeadPoisoningPrevention/SP- Lead-Poisoning-Prevention.aspx	Isnc.net/office/Isnc-health- program	www.lifemattersinc.org/	www.lighthouseofhopefulhear	www.lilliput.org	www.linchousing.org	sacloaves.org	www.lssnorcal.org	mackroadpartnership.com	mackroadpartnership.com/ reimagine-foundation/programs	makinfo.org	www.sacfishes.org/programs/ maryhouse	www.va.gov/find-locations/ facility/vha_612GH	www.mowsac.org	www.mhac.org	
Whole county	95814	95842	95189	95610 95820	95838	95811	95824	95823	95823	95608	95811	95652	95831	95811	
Lead Poisoning Prevention Program— Sacramento County Public Health	Legal Services of Northern California— Health Rights	Life Matters	Lighthouse of Hopeful Hearts	Lilliput Children's Services	LINC Housing	Loaves and Fishes	Lutheran Social Services	Mack Road Partnership	Mack Road Partnership Community Center	MAK- Meningitis Awareness Key to Prevention	Mary House	McClellan VA Clinic	Meals on Wheels Sacramento	Mental Health America of California)

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supportmercyfoundation.org/ home	www.dignityhealth.org/ sacramento/locations/mercy- general-hospital	www.dignityhealth.org/ sacramento/locations/mercy- hospital-of-folsom	www.mercyhousing.org	www.dignityhealth.org/ sacramento/locations/mercy-san- juan-medical-center	www.dignityhealth.org/ sacramento/locations/methodist- hospital-of-sacramento	consulmex.sre.gob.mx	www.molinahealthcare.com	www.mutualassistance.org	www.my-sisters-house.org	namisacramento.org	www.nationalmsociety.org	www.diabeteslocal.org/resource/ natomas-crossroads-clinic	natomasunified.org
95670	95819	95630	95816 95838 95833 95820 95811	95608	95823	95834	95838, 95823	95838, 95821, 95815	95818	95827	95834	95834	95834
Mercy Foundation	Mercy General Hospital (Dignity Health)	Mercy Hospital Folsom	Mercy Housing	Mercy San Juan Medical Center (Dignity Health)	Methodist Hospital of Sacramento (Dignity Health)	Mexican Consulate General in Sacramento	Molina Healthcare	Mutual Assistance Network	My Sister's House	National Alliance on Mental Illness Sacramento (NAMI)	National Multiple Sclerosis Society	Natomas Crossroads Clinic	Natomas Unified School District

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www.ncaddsac.org, www.ncadd. org	neighborhoodwellness.org	crpd.com/parks/neil-orchard- senior-activities-center	www.newtestamentbaptchurch. org	www.nextmovesacramento.org	www.franklinblvddistrict.com/	dhs.saccounty.net/PUB/Pages/ Nurse-Family-Partnership/ The-Nurse-Family-Partnership- Program.aspx	www.cityofsacramento.org/ ParksandRec/Community- Centers/OakParkCenter	www.cityofsacramento.org/ economic-development/ community-engagement/ neighborhood-directory/ district5/oak-park-neighborhood- association	alchemistcdc.org/broadway-sol/	dhs.saccounty.net/PUB/Pages/ Chronic-Disease-Prevention- Program/Obesity-Prevention- Program.aspx	onecommunityhealth.com	www.openingdoorsinc.org
95825	95838	95827	95660	95817	95820	Whole county	95817	95817	95817	Whole county	95811 95825	95825
NCADD Sacramento	Neighborhood Wellness Foundation	Neil Orchard Senior Activities Center	New Testament Baptist Church	Next Move (SAEH)	North Franklin District Business Association	Nurse Family Partnership – Sacramento County Public Health	Oak Park Community Center	Oak Park Neighborhood Association	Oak Park Sol Community Garden	Obesity Prevention Program – Sacramento County Public Health	One Community Health	Opening Doors

Oral Health Program – Sacramento County Public Health	Whole county	dhs.saccounty.net/PUB/ OralHealth/Pages/Oral-Health. aspx					×					×	
Orangevale Food Bank	95662	orangevalefoodbank.org		×				×	×				
Pacific Counseling and Trauma Center (Pacific Trauma Specialists)	95630	www.pacifictraumacenter.com	×						×				
Paratransit, Inc.	95822	paratransit.org									×		
Partners in Care	95603	picseniorcare.com		×									
Paul Hom Asian Clinic	95819	www.paulhomasianclinic.com/			×	×	×		×	×			
Peach Tree Health Sacramento	95834	www.pickpeach.org	×		×							×	
People Reaching Out (PRO) Youth and Families	95841	proyouthandfamilies.org	×						×				
Pioneer Congregational United Church of Christ	95816	pioneerucc.org		×					×				
Planned Parenthood B Street Health Center	95816	www.plannedparenthood. org/health-center/california/ sacramento/95816/b- street-health-center-2200- 90130?utm_campaign=b- street-health-center&utm_ medium=organic&utm_ source=local-listing			×	×	×			×			
Planned Parenthood Capitol Plaza Health Center	95814	www.plannedparenthood. org/health-center/california/ sacramento/95814/capitol- plaza-health-center-2199- 90130?utm_campaign=capitol- plaza-health-center&utm_ medium=organic&utm_ source=local-listing			×	×	×			×			

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www.plannedparenthood. org/health-center/california/ sacramento/95820/ fruitridge-health-center-2198- 90130?utm_campaign=fruitridge-health-center&utm_ medium=organic&utm_ source=local-listing	www.plannedparenthood. org/health-center/california/ north-highlands/95660/north- highlands-health-center-2201- 90130?utm_campaign=north- highlands-health-center&utm_ medium=organic&utm_ source=local-listing	partyprogram.com	www.prideindustries.com	www.scoe.net/divisions/ed_ services/project_teach/	dhs.saccounty.net/PUB/Pages/ PUB-Home.aspx	dhs.saccounty.net/PUB/ Emergency-Preparedness/ Pages/SP-Emergency- Preparedness.aspx	dhs.saccounty.net/PUB/ Laboratory/Pages/Laboratory- Home.aspx	www.radkids.org
95820	95660	95763	95660 95826 95834	95826	Entire county	Whole county	Whole county	27617
Planned Parenthood Fruitridge Health Center	Planned Parenthood North Highlands Health Center	Prevent Alcohol and Risk Related Trauma in Youth (P.A.R.T.Y.)	PRIDE Industries	Project TEACH	Public Health Division – Sacramento County Department of Health and Human Services	Public Health Emergency Preparedness - Sacramento County Public Health	Public Health Laboratory – Sacramento County Public Health	radKIDS Childrens's Safety Education

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rebuildingtogethersacramento. org	rivercityfoodbank.org	www.riverdelta.org	www.riveroak.org	www.riveroak.org/programs/	www.robertsfdc.org	www.robla.k12.ca.us	www.rjuhsd.us	dhs.saccounty.net/PUB/ SexualHealthPromotionUnit/ Pages/RyanWhiteProgram/Ryan- White-Program.aspx	www.kidshome.org/what-we-do/ family-resource-center	www.sacact.org	www.kidshome.org	sccsc.org	scc.losrios.edu/dentalhealthclinic
95826	95816 95821	94571	95841	95820	95815	95838	95661	Whole county	95822	95818	95820	95814	95822
Rebuilding Together - Sacramento	River City Food Bank	River Delta Unified School District	River Oak Center for Children	River Oak Family Resource Center	Roberts Family Development Center	Robla School District	Roseville Unified School District	Ryan White HIV Care & Treatment – Sacramento County Public Health	Sacramento Children's Home - Meadowview Family Resource Centers	Sacramento Area Congregations Together (ACT)	Sacramento Children's Home	Sacramento Chinese Community Services Center (SCCS)	Sacramento City College—Dental Health Clinic

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95824	Whole county	Whole county	Whole county	95826	95822 95838 95820 95670	95826	95827	95811	95825	95825
Sacramento City Unified School District	Sacramento County Dental Health Program	Sacramento County Department of Health and Human Services	Sacramento County Department of Human Assistance	Sacramento County Office of Education SCOE: Project TEACH	Sacramento County Women, Infants and Children (WIC)	Sacramento Countywide Foster Youth Services	Sacramento Court Appointed Special Advocates (CASA)	Sacramento Covered	Sacramento District Dental Foundation	Sacramento Emergency Rental Assistance

Sacramento Employment and Training Agency (SETA)	95815	www.seta.net		×									
Sacramento Food Bank and Family Services	95817 95838	www.sacramentofoodbank.org		×				×		×			
Sacramento Habitat for Humanity	95811	habitatgreatersac.org		×						×			
Sacramento Homeless Union	95825	www.sacramentohomelessunion. org	×										
Sacramento Housing Alliance	95814	sachousingalliance.org		×						×			
Sacramento Housing and Redevelopment Agency (SHRA)	95814	www.shra.org		×									
Sacramento Junior Giants	95811	www.cityofsacramento.org/ ParksandRec/Youth-Division/ Youth-Sports-and-Summer- Programs/JR-Giants						×		×			
Sacramento Kindness Campaign	95864	www.sackindnesscampaign.org		×					×	×		×	
Sacramento LGBT Community Center	95811	saccenter.org		×		×			×	×			
Sacramento Life Center (SLC)	95825	saclife.org			×		×			×	×		
Sacramento Native American Health Center, Inc.	95811	www.snahc.org	×		×		×	×	×		×		
Sacramento Police Foundation	95822	sacpolicefoundation.org/ wordpress								×			
Sacramento Regional Coalition to End Homelessness	95833	www.srceh.org		×									

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www.sacselfhelp.org	sacrai	www.sactree.com	www.scusd.edu	www.wellspacehealth.org/ services/behavioral-health prevention/sac-violence- intervention-program	sacwomenshealth.com	sacramentoworks.org	www.cleanneedles.org	safetycenter.org	saintjohnsprogram.org	www.cityofsacrametrorg/ParksandRec/ Community-Centers/ SamBonniePannellC	www.sanjuan.edu
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Sacramento Self Help Housing	Sacramento Steps Forward	Sacramento Tree Foundation	Sacramento County Unified School District	Sacramento Violence Intervention Program (SVIP) (WellSpace Health)	Sacramento Women's Health	Sacramento Works Job Centers	Safer Alternatives Thru Networking and Education (SANE)	Safety Center	Saint John's Program for Real Change	Sam & Bonnie Pannell Community Center	San Juan Unified School District
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San Juan Unified School District (FACE) Department	95608	www.sanjuan.edu/Page/525							×	×				
SeniorCare PACE	95823 95818	www.sutterhealth.org/services/ senior-geriatric/senior-pace			×		×	×			×			
SETA Head Start	95815	headstart.seta.net		×				×		×				
Sherriff Community Impact Program	95825	www.sacscip.org	×					×	×					
Shifa Community Clinic	95818	www.shifaclinic.org	×		×			×					×	
Shiloh Baptist Church	95817	www.shilohbaptistchurch- sacramento.org		×						×				
Shingle Springs Tribal TANF Program	95825	www.shinglespringsrancheria. com/tribal-tanf/		×										
Shriner's Hospital for Children	95817	www.shrinerschildrens.org/ locations/northern-california			×	×	×				×			
Sierra Health Foundation	95833	www.sierrahealth.org	×		×		×	×	×	×				
Sierra Vista Hospital	95823	sierravistahospital.com	×											
Slavic Assistance Center	95825	www.slaviccenter.us		×										
Society for the Blind	95811	societyfortheblind.org					×			×	×			
Soil Born Farms	95670	soilborn.org/our-story		×				×	×	×				
South County Services	95632	southcountyservices.net		×								×		
South Natomas Community Center	95833	www.cityofsacramento.org/ ParksandRec/Community- Centers/SouthNatomasCenter						×		×				
South Sacramento Interfaith Partnership Food Closet	95822	www.ssipfoodcloset.org		×										

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95822	95864	95820	95758	95816	95833	95826	Whole county	20036	95825	95826	Sacramento County	95616	95628
Southeast Asian Assistance Center	St. Marks United Methodist Church	St. Paul Missionary Baptist Church	St. Vincent De Paul Good Shepard Catholic Church	St. Vincent de Paul Sacramento Council	Stanford Settlement	Stanford Sierra Youth and Families	Stop Stigma Sacramento Speakers Bureau	Su Familia— The National Hispanic Family Health Helpline	Sunburst Projects	Sutter Center for Psychiatry	Sutter Health in Collaboration with WellSpace Health Street Nurse Program	Sutter Medical Center, Sacramento	Terra Nova

The Cup With Love Project	95758	www.cupwithlove.org							×		
The Gardens— A Family Care Community Center	95822	thegardensfamily.org	×	×		×			×		
The Keaton Raphael Memorial	95661	childcancer.org				×			×		
The Mental Health Association	95825	www.mhac.org	×								
The Place Within Folsom	95830	www.theplacewithinfolsom.com	×								
The Salvation Army	95814 95670 95817	www.salvationarmyusa.org		×	×			×	×		
The Salvation Army – Adult Rehabilitation Center	95814	sacramento.salvationarmy.org/	×						×		
The SOL Project – Saving Our Legacy, African Americans for Smoke-Free Safe Places	95814	www.thesolproject.com	×						×		
Tobacco Education Program – Sacramento County Public Health	Whole county	dhs.saccounty.net/PUB/Pages/ Tobacco-Education-Program/ SP-Tobacco-Education-Program. aspx				×					×
Triple-R Adult Day Centers - City of Sacramento	95816	www.cityofsacramento.org/ ParksandRec/Recreation/older- adult-services/Programs/TripleR							×		
Turning Point Community Programs	95827	www.tpcp.org	×	×							
Twin Lakes Food Bank	95630	www.twinlakesfoodbank.org/		×					×		

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Twin Rivers Unified School District	U.S. Department of Veterans Affairs — Sacramento Vet Center	UC Davis Medical Center	United Cerebral Palsy of Sacramento and Northern California	VA Northern California Health Care System	Valley Hi Family Resource Center	Visions Unlimited	Vital Records - Sacramento County Public Health	Volunteers of America- Northern California and Northern Nevada	Waking the Village	WALK Sacramento	Warmline Family Resource Center	Æ	Wellness and Recovery Center - Consumers Self Help	Wellness Within
Twin Riv Unified District	U.S. Dep of Veter Affairs – Sacrame Vet Cen	UC Davis Medical C	United Ce Palsy of Sacramen and North California	VA No Califo Care	Valle	Visio	Vital Re – Sacre County Health	Volunteer America- Northern California Northern	Waking Village	WALK	Warm	WEAVE	Wellness Recovery – Consun Self Help	Welln

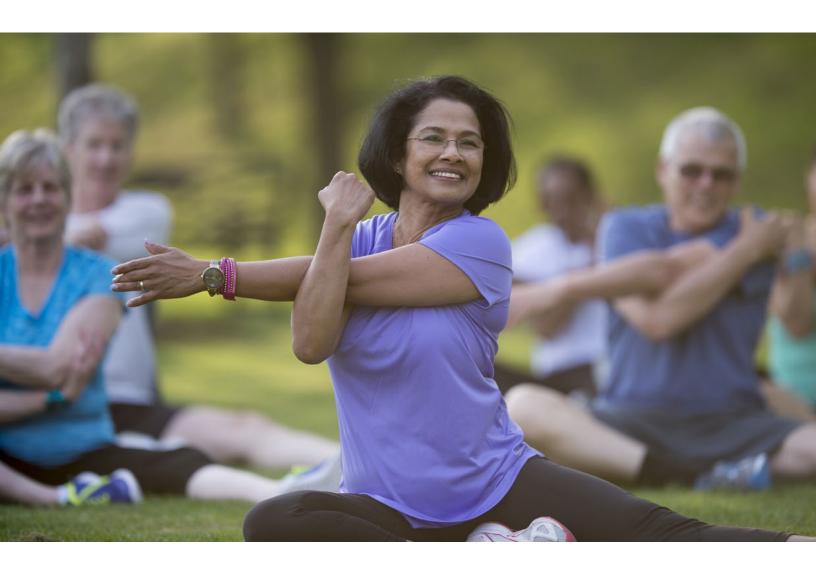
WellSpace Health	95632 95823 95826 95841 95828 95610 95621 95827 95834 95817 95830 95810 95820	www.wellspacehealth.org	×	, , , , , , , , , , , , , , , , , , ,	×	×	×		×		×		×	
WellSpace Health Residential Treatment Center	95815	www.wellspacehealth.org/ services.counseling-prevention/ addictions-counseling	×		^	×								
WellSpace Health Interim Care Program (ICP)	95820	www.wellspacehealth.org	×	×	^	×			×			×		
Wellspring Women's Center	95817	www.wellspringwomen.org	×		^	×		×		×				
Wind Youth Services	95817	www.windyouth.org	×	×						×				
Women's Empowerment	95811	womens-empowerment.org	×	×										
World Relief Sacramento	95660	worldrelief.org/sacramento		×	^	×				×				
YMCA of Superior California	95818	www.ymcasuperiorcal.org		×				×	×	×				
Yoga Seed Collective	95814	theyogaseed.org						×						
YWCA	95811	www.ywcaccc.org/sacramento	×	×			×			×				

Limits and Information Gaps

Study limitations for this CHNA included obtaining secondary quantitative data specific to population subgroups, and ensuring 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.

Related to primary data collection, gaining access to participants that best represented the populations needed for this assessment was a challenge for the key informant interviews, focus groups and CSP survey. The COVID-19 pandemic made it more difficult to recruit community members to participate in 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 readily available as those data that detail the resulting health disparities. Having a clearer picture of early-in-life opportunity differences, as experienced by various populations, that result in later-in-life disparities can help direct community health improvement efforts for maximum impact.







UC Davis Medical Center

2315 Stockton Blvd. Sacramento, CA 95817 health.ucdavis.edu