

# SUTTER ROSEVILLE MEDICAL CENTER

**2019 Community Health Needs Assessment** 

## Mission

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

## Vision

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

## **Community Health Needs Assessment**

The following report contains Sutter Roseville Medical Center's 2019 Community Health Needs Assessment (CHNA), which is used to identify and prioritize the significant health needs of the communities we serve. CHNAs are conducted once every three years, in collaboration with other healthcare providers, public health departments and a variety of community organizations. This CHNA report guides our strategic investments in community health programs and partnerships that extend Sutter Health's not-for-profit mission beyond the walls of our hospitals, improving health and quality of life in the areas we serve.

# **2019 Community Health Needs Assessment**

Conducted on behalf of

# Sutter Roseville Medical Center One Medical Plaza Drive Roseville, CA 95661

Conducted by



June 2019

# **Acknowledgements**

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

Community Health Insights (<a href="www.communityhealthinsights.com">www.communityhealthinsights.com</a>) conducted the assessment on behalf of Sutter Roseville Medical Center. Community Health Insights is a Sacramento-based research-oriented consulting firm dedicated to improving the health and well-being of communities across Northern California. This joint report was authored by:

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## **Report Summary**

## **Purpose**

The purpose of this community health needs assessment (CHNA) was to identify and prioritize significant health needs of the Sutter Roseville Medical Center (SRMC) service area. The priorities identified in this report help to guide nonprofit hospitals' community health improvement programs and community benefit activities as well as their collaborative efforts with other organizations that share a mission to improve health. This CHNA report meets the requirements of the Patient Protection and Affordable Care Act (and in California, Senate Bill 697) that nonprofit hospitals conduct a community health needs assessment at least once every three years. The CHNA was conducted by Community Health Insights (www.communityhealthinsights.com).

## **Community Definition**

The definition of the community served was the primary service area of SRMC. The service area was defined by 21 ZIP Codes in southern Placer and northern Sacramento Counties. This service area was designated because the majority of patients served by SRMC resided in these ZIP Codes. Collectively, over 700,000 residents live in the service area.

## **Assessment Process and Methods**

The data used to conduct the CHNA were identified and organized using the widely recognized Robert Wood Johnson Foundation's County Health Rankings model. This model of population health includes many factors that impact and account for individual health and well-being. Further, to guide the overall process of conducting the assessment, a defined set of data-collection and analytic stages were developed. These included the collection and analysis of both primary (qualitative) and secondary (quantitative) data. Qualitative data included 12 one-on-one and group interviews with 73 community health experts, social-service providers, and medical personnel. Further, 75 community residents participated in eight focus groups across the service area.

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

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

Primary and secondary data were analyzed to identify and prioritize significant health needs. This began by identifying 10 potential health needs (PHNs). These PHNs were those identified in previously conducted CHNAs. Data were analyzed to discover which, if any, of the PHNs were present in the service area. After these were identified, PHNs were prioritized based on rankings provided by primary data sources. Data were also analyzed to detect emerging health needs beyond those 10 PHNs identified in previous CHNAs.

<sup>&</sup>lt;sup>1</sup> See: http://www.countyhealthrankings.org/

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

The following significant health needs were identified and are listed below in prioritized order.

- 1. Access to Mental/Behavioral/Substance Abuse Services
- 2. Access to Quality Primary Care Health Services
- 3. Access to Basic Needs Such as Housing, Jobs, and Food
- 4. Access and Functional Needs
- 5. Injury and Disease Prevention and Management
- 6. Access to Specialty and Extended Care
- 7. Active Living and Healthy Eating

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

In all, 260 resources were identified in the service area that were potentially available to meet the identified significant health needs. The identification method included starting with the list of resources from the 2016 CHNA, verifying that the resources still existed, and then adding newly identified resources into the 2019 CHNA report.

## **Conclusion**

This CHNA report details the health needs of the communities served by SRMC. It provides an overall health and social examination of SRMC's service area and an examination of the needs of community members living in parts of the service area where the residents experience more health disparities. The CHNA provides a comprehensive profile to guide decision-making for the implementation of community health improvement efforts. This report also serves as an example of a collaboration between local healthcare systems to provide meaningful insights to support improved health in the communities they serve.

# **Introduction and Purpose**

Both state and federal laws require that nonprofit hospitals conduct a community health needs assessment (CHNA) to identify and prioritize the significant health needs of the communities they serve. The results of the CHNA guide the development of implementation plans aimed at addressing identified health needs. Federal regulations define a *health need* accordingly: "Health needs include requisites for the improvement or maintenance of health status in both the community at large and in particular parts of the community (such as particular neighborhoods or populations experiencing health disparities)."<sup>2</sup>

This report documents the processes, methods, and findings of a CHNA conducted on behalf of Sutter Roseville Medical Center (SRMC), located at One Medical Plaza Drive, Roseville, California 95661. SRMC's primary service area includes portions of southern Placer and northern Sacramento Counties, and is home to over 700,000 residents.

SRMC is an affiliate of Sutter Health, a nonprofit healthcare system. The CHNA was conducted over a period of approximately 12 months, beginning in April 2018 and concluding May 2019. This CHNA report meets requirements of the Patient Protection and Affordable Care Act and California Senate Bill 697 that nonprofit hospitals conduct a community health needs assessment at least once every three years.

Community Health Insights (<a href="www.communityhealthinsights.com">www.communityhealthinsights.com</a>) conducted the CHNA on the behalf of SRMC. Community Health Insights is a Sacramento-based research-oriented consulting firm dedicated to improving the health and well-being of communities across Northern California. Community Health Insights has conducted multiple CHNAs over the previous decade.

# **Organization of This Report**

This report follows federal guidelines issued on how to document a CHNA. First, the prioritized listing of significant health needs identified through the CHNA is described, along with the process and criteria used in identifying and prioritizing these needs. Next, the methods used to conduct the CHNA are described, including how data were collected and analyzed. This includes a description of how SRMC solicited and considered the input received from persons representing the broad interests of the community. Then, the community served by SRMC and how the community was identified are described. This is followed by a description of the Community Health Vulnerability Index and the identification of Communities of Concern for the SRMC service area. Resources potentially available to meet these needs are identified and described after this. Finally, a summary is included of the impact of actions taken by SRMC to address significant health needs identified in its previous CHNA.

A detailed methodology section titled "2019 CHNA Technical Section" is included later in this report. This section includes an in-depth description of the methods followed in collection, analysis, and results of data to identify and prioritize significant health needs.

<sup>&</sup>lt;sup>2</sup> Federal Register, Vol. 79, No. 250, p. 78963, (Wednesday, December 31, 2014). Department of the Treasury, Internal Revenue Service.

# **Findings**

## **Prioritized, Significant Health Needs**

Primary and secondary data were analyzed to identify and prioritize the significant health needs in the SRMC service area. In all, seven significant health needs were identified. After these were identified they were prioritized based on an analysis of primary data sources that mentioned the health need as a priority. The findings are displayed in Figure 1.

In the figure, the blue portion of the bar represents the percentage of primary data sources that referenced the health need. This was combined with the percentage of times any theme associated with a health need was mentioned by key informants or focus group participants as one of the top three health needs in the community, as shown in the green portion of the bar.

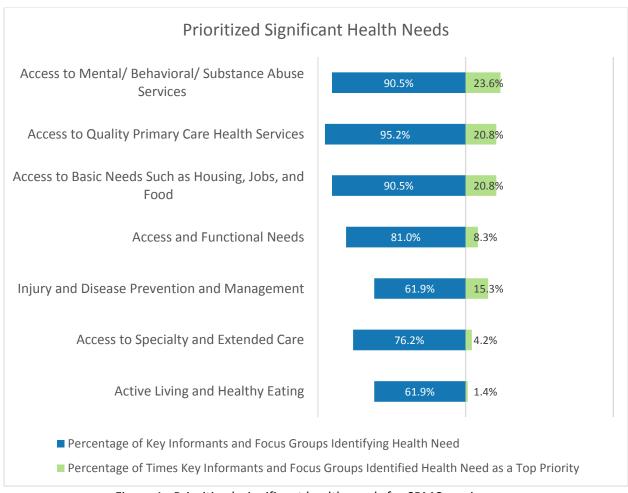


Figure 1: Prioritized, significant health needs for SRMC service area

The significant health needs are described below. Those secondary data indicators used in the CHNA that performed poorly compared to benchmarks are listed in the table below each significant health need. Qualitative themes that emerged during data analysis are also provided in the table. (A full listing of all quantitative indicators can be found in the technical section of this report).

## 1. Access to Mental, Behavioral, and Substance-Abuse Services

Individual health and well-being are inseparable from individual mental and emotional outlook. Coping with daily life stressors is challenging for many people, especially when other social, familial, and economic challenges occur concurrently. Adequate access to mental, behavioral, and substance-abuse services helps community members obtain additional support when needed.

| Q | uantitative Indicators |   | Qualitative Themes   |
|---|------------------------|---|--|
| • | Life Expectancy        | • | Inadequate capacity of mental/behavioral/substance-use system to meet the                |
| • | Liver Disease          |   | demand for services  |
|   | Mortality              |   | <ul> <li>Wait-times to receive services can be months</li> </ul>                         |
| • | Suicide Mortality      |   | <ul> <li>More inpatient and outpatient services are needed</li> </ul>                    |
| • | Poor Mental Health     |   | <ul> <li>Services for families are lacking</li> </ul>                                    |
|   | Days                   |   | <ul> <li>Not enough affordable care to meet the needs of the aging population</li> </ul> |
| • | Poor Physical Health   |   | <ul> <li>Limited number of med/psych beds available to those in need</li> </ul>          |
|   | Days                   | • | Mental health and substance-use are connected; many are self-medicating to               |
| • | Drug Overdose          |   | treat a mental health issue  |
|   | Deaths                 | • | Not enough capacity in shelters to serve the growing homeless population                 |
| • | Excessive Drinking     | • | Participants report that there is a stigma associated with seeking mental health         |
| • | Mental Health          |   | services in the community, and this is a barrier for many that need help                 |
|   | Providers              | • | The poor are suffering with mental health issues disproportionately relative to          |
| • | HPSA Mental Health     |   | the more affluent, and have greater challenges in getting services                       |
| • | Psychiatry Providers   | • | Opioid addiction is a significant issue in the community                                 |
|   |                        | • | Immigrants suffer from depression as a result of being away from their country           |
|   |                        |   | of origin  |
|   |                        | • | Adverse Childhood Experience (ACE) go untreated in the community                         |
|   |                        | • | There is no detox program in Placer County   |
|   |                        | • |  |

## 2. Access to Quality Primary Care Health Services

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

| Quantitative Indicators                               | Qualitative Themes  |
|---|---|
| <ul> <li>Life Expectancy</li> </ul>                   | <ul> <li>Affordability is a barrier in accessing primary care and</li> </ul>      |
| <ul> <li>Cancer Mortality</li> </ul>                  | medication  |
| <ul> <li>Child Mortality</li> </ul>                   | <ul> <li>Many providers, clinics, and pharmacies are not open after</li> </ul>    |
| <ul> <li>CLD Mortality</li> </ul>                     | hours creating a barrier in accessing these services                              |
| <ul> <li>Diabetes Mortality</li> </ul>                | Medi-Cal enrollees report receiving poor quality medical                          |
| <ul> <li>Heart Disease Mortality</li> </ul>           | services  |
| <ul> <li>Hypertension Mortality</li> </ul>            | <ul> <li>Medi-Cal enrollees report long wait times to get appointments</li> </ul> |
| <ul> <li>Influenza and Pneumonia Mortality</li> </ul> | Limited number of providers that will accept Medi-Cal                             |
| <ul> <li>Kidney Disease Mortality</li> </ul>          | Some patients report that they are treated with disrespect in                     |
| <ul> <li>Liver Disease Mortality</li> </ul>           | some area clinics   |
| <ul> <li>Stroke Mortality</li> </ul>                  | Some residents use emergency departments for primary care                         |
| <ul> <li>Cancer Female Breast</li> </ul>              | needs   |
| <ul> <li>Cancer Colon and Rectum</li> </ul>           | Residents report skipping treatment and medications due to                        |
| <ul> <li>Diabetes Prevalence</li> </ul>               | cost, or using home remedies that may or may not be effective                     |
| <ul> <li>Low Birth Weight</li> </ul>                  | Many clinics are overwhelmed with patients seeking basic                          |
| <ul> <li>Cancer Lung and Bronchus</li> </ul>          | primary care  |

|      | Quantitative Indicators        |   | Qualitative Themes  |
|------|--------------------------------|---|---|
| • Ca | ancer Prostate                 | • | The primary care system has not kept pace with the growth |
| • H  | PSA Primary Care               |   | and demand for services in Placer County                  |
| • H  | PSA Medically Underserved Area | • | There is a lack of urgent care clinics in the community   |
| • Pr | reventable Hospital Stays      |   |   |

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

Access to affordable and clean housing, stable employment, quality education, and adequate food for good health are vital for survival. Maslow's Hierarchy of Needs<sup>3</sup> demonstrates that only when people have their basic physiological and safety needs met can they become engaged members of society and self-actualize or live to their fullest potential, including enjoying good health.

| Quantitative Indicators   | Qualitative Themes  |
|---|---|
| Life Expectancy   | <ul> <li>The homeless population is growing throughout the area</li> </ul>  |
| <ul> <li>Infant Mortality</li> </ul>  | <ul> <li>Homeless shelters are not always culturally competent</li> </ul>   |
| <ul> <li>Age-Adjusted Mortality</li> </ul>                                    | <ul> <li>Affordable housing is a key issue in the community</li> </ul>  |
| Child Mortality   | <ul> <li>Lack of housing continues to drive up housing costs</li> </ul>   |
| <ul> <li>Premature Age-Adjusted<br/>Mortality</li> </ul>                      | <ul> <li>Multiple families are living in homes designed for single<br/>families, overcrowding is an issue</li> </ul>                                |
| <ul><li>Years of Potential Life Lost</li><li>Low Birth Weight</li></ul>       | <ul> <li>Rent controls are needed to ensure access to housing for all<br/>community residents</li> </ul>  |
| HPSA Medically Underserved     Area   | <ul> <li>Lower income populations often do not have the financial<br/>resources to qualify for rental properties</li> </ul>                         |
| <ul><li>High School Graduation</li><li>Children with Single Parents</li></ul> | <ul> <li>Seniors on fixed incomes have difficulty meeting their basic<br/>needs of food and shelter</li> </ul>                                      |
| <ul><li>Children in Poverty</li><li>Median Household Income</li></ul>         | <ul> <li>Many residents are not skilled enough to find adequate<br/>employment</li> </ul>   |
| <ul> <li>mRFEI</li> <li>Limited Access to Healthy Food</li> </ul>             | <ul> <li>The waiting list for low-income housing is substantial, residents<br/>report that it takes years to get into low-income housing</li> </ul> |

## 4. Access and Functional Needs – Transportation and Physical Disability

Having access to transportation services to support individual mobility is a necessity of daily life. Without transportation, individuals struggle to meet their basic needs, including those that promote and support a healthy life. Examining the number of people that have a disability is also an important indicator for community health in an effort to ensure that all community members have access to necessities for a high quality of life.

|   | Quantitative                  | Qualitative Themes  |  |  |  |  |  |
|---|-------------------------------|---|--|--|--|--|--|
|   | Indicators                    |   |  |  |  |  |  |
| • | Public Transit                | Bus schedules do not run after hours or on weekends   |  |  |  |  |  |
|   | Proximity                     | Using public transportation can be overwhelming for those that do not speak English   |  |  |  |  |  |
|   | Percentage<br>with Disability | <ul> <li>Public transportation does not adequately cover all parts of the community; many rural areas are not served by public transportation</li> <li>Some residents miss follow-up care plans due to transportation issues</li> </ul> |  |  |  |  |  |

<sup>3</sup> McLeod, S. (2014). *Maslow's Hierarchy of Needs*. Retrieved from: <a href="http://www.simplypsychology.org/maslow.html">http://www.simplypsychology.org/maslow.html</a>

## 5. Injury and Disease Prevention and Management

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

| Quantitative Ind   | icators  | Qualitative Themes  |  |  |  |
|--|--|---|--|--|--|
| <ul> <li>CLD Mortality</li> <li>Diabetes Mortality</li> <li>Heart Disease Mortality</li> <li>Hypertension Mortality</li> <li>Influenza and Pneumonia<br/>Mortality</li> <li>Kidney Disease Mortality</li> <li>Liver Disease Mortality</li> <li>Stroke Mortality</li> <li>Suicide Mortality</li> <li>Unintentional Injury Mortality</li> <li>Diabetes Prevalence</li> </ul> | <ul> <li>Low Birth Weight</li> <li>Drug Overdose         Deaths</li> <li>Excessive Drinking</li> <li>Adult Obesity</li> <li>Physical Inactivity</li> <li>STI Chlamydia Rate</li> <li>Teen Birth Rate</li> <li>Adult Smokers</li> <li>Motor Vehicle         Crash Deaths</li> </ul> | <ul> <li>More sex education services are needed in the service area</li> <li>Many parts of the community lack social services for youth</li> <li>Many schools are significantly underfunded and offer no or limited health-related instruction and curriculum</li> <li>Prevention services needed for youth; services should be started earlier in life</li> <li>Nutrition education services needed throughout community</li> <li>More school nurses and health educators needed in schools</li> </ul> |  |  |  |

## 6. Access to Specialty and Extended Care

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

| Quantita   | tive Indicators  | Qualitative Themes   |  |  |  |  |
|--|--|--|--|--|--|--|
| <ul> <li>Infant Mortality</li> <li>Alzheimer's Mortality</li> <li>Child Mortality</li> <li>Life Expectancy</li> <li>Alzheimer's Mortality</li> <li>Cancer Mortality</li> <li>CLD Mortality</li> <li>Diabetes Mortality</li> <li>Heart Disease<br/>Mortality</li> </ul> | <ul> <li>Hypertension Mortality</li> <li>Kidney Disease Mortality</li> <li>Liver Disease Mortality</li> <li>Stroke Mortality</li> <li>Diabetes Prevalence</li> <li>Cancer Lung and Bronchus</li> <li>Psychiatry Providers</li> <li>Preventable Hospital Stays</li> </ul> | <ul> <li>Limited access to specialty care throughout the community; appointments hard to get</li> <li>Many travel out of the community to access specialty care</li> <li>Cost of specialty care is a barrier for many</li> <li>There is no pain-management care in the community</li> <li>Medi-Cal enrollees report extensive wait-times to get appointments with specialist</li> <li>Limited pre-natal care for Medi-Cal enrollees</li> </ul> |  |  |  |  |

#### 7. Active Living and Healthy Eating

Physical activity and eating a healthy diet are extremely important for one's overall health and well-being. Frequent physical activity is vital for prevention of disease and maintenance of a strong and healthy heart and mind. When access to healthy foods is challenging for community residents, many

turn to unhealthy foods that are convenient, affordable, and readily available. Communities experiencing social vulnerability and poor health outcomes are often overloaded with fast food and other establishments where unhealthy food is sold.

| Quantitative   | Indicators  | Qualitative Themes  |  |  |  |
|--|---|---|--|--|--|
| <ul> <li>Cancer Mortality</li> <li>Diabetes Mortality</li> <li>Heart Disease Mortality</li> <li>Hypertension Mortality</li> <li>Kidney Disease Mortality</li> <li>Stroke Mortality</li> <li>Cancer Female Breast</li> <li>Cancer Colon and Rectum</li> </ul> | <ul> <li>Diabetes Prevalence</li> <li>Cancer Prostate</li> <li>Limited Access to<br/>Healthy Food</li> <li>mRFEI</li> <li>Access to Exercise</li> <li>Physical Inactivity</li> <li>Adult Obesity</li> </ul> | <ul> <li>Need more nutrition classes in the service area</li> <li>Gym membership cost is a barrier for many in exercising</li> <li>Food deserts exist in many parts of the service area</li> <li>No farmers markets in many parts of the community</li> <li>Cost of processed food is much less than healthier food; this creates financial incentives to eat less healthy foods</li> <li>Food banks do not have produce</li> </ul> |  |  |  |

## **Populations Experiencing Health Disparities**

Health disparities are defined as "preventable differences in the burden of disease, injury, violence, or opportunities to achieve optimal health experienced by populations, and [are] defined by factors such as race or ethnicity, gender, education or income, disability, geographic location or sexual orientation." The figure below describes populations in the SRMC service area identified through qualitative data analysis that were indicated as experiencing health disparities. Interview participants were asked, "What specific groups of community members experience health issues the most?" Responses were analyzed by counting the total number of times all key informants and focus group participants mentioned a particular group as one experiencing disparities. Figure 2 displays the results of this analysis. In the figure, the blue bars represent the total number of times a group was mentioned in key informant interviews. The different groups are presented in ranked order, with the most mentioned group list at the top.

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<sup>&</sup>lt;sup>4</sup> Center for Disease Control and Prevention (2008). *Health Disparities Among Racial/Ethnic Populations*. Community Health and Program Services (CHAPS): Atlanta: U.S. Department of Health and Human Services.

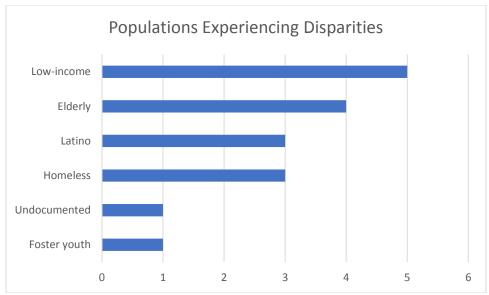


Figure 2: Populations experiencing disparities the SRMC service area

Low income populations were mentioned most frequently as members of the community experiencing health disparities.

## **Method Overview**

## **Conceptual and Process Models**

The data used to conduct the CHNA were identified and organized using the widely recognized Robert Wood Johnson Foundation's County Health Rankings model.<sup>5</sup> This model of population health includes the many factors that impact and account for individual health and well-being. Further, to guide the overall process of conducting the assessment, a defined set of data collection and analytic stages were developed. For a detailed review of methods, see the technical section.

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

Regulations require that nonprofit hospitals include written comments from the public on their previously conducted CHNAs and most recently adopted implementation strategies. SRMC requested written comments from the public on its 2016 CHNA and most recently adopted implementation strategy through SHBC@sutterhealth.org.

At the time of the development of this CHNA report, SRMC had not received written comments. However, input from the broader community was considered and taken into account for the 2019 CHNA through key informant interviews and focus groups. SRMC will continue to use its website as a tool to solicit public comments and ensure that these comments are considered as community input in the development of future CHNAs.

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

Data collected and analyzed included both primary or qualitative data and secondary or quantitative data. Primary data included 12 one-on-one and group interviews with 73 community health experts as

<sup>&</sup>lt;sup>5</sup> See: http://www.countyhealthrankings.org/

well as eight focus groups conducted with a total of 75 community residents. (A full listing of all participants can be seen in the technical section of this report.)

Secondary data included four datasets selected for use in the various stages of the analysis. A combination of mortality and socioeconomic datasets collected at sub-county levels was used to identify portions of the hospital service area with greater concentrations of disadvantaged populations and poor health outcomes. A set of county level indicators was collected from various sources to help identify and prioritize significant health needs. Additionally, socioeconomic indicators were collected to help describe the overall social conditions within the service area. Health outcome indicators included measures of both mortality (length of life) and morbidity (quality of life). Health factor indicators included measures of 1) health behaviors, such as diet and exercise and tobacco, alcohol, and drug use; 2) clinical care, including access to and quality of care; 3) social and economic factors such as race/ethnicity, income, educational attainment, employment, neighborhood safety, and similar; and 4) physical environment measures, such as air and water quality, transit and mobility resources, and housing affordability. In all, 64 different health outcome and health factor indicators were collected for the CHNA.

## **Data Analysis**

Primary and secondary data were analyzed to identify and prioritize the significant health needs within the SRMC service area. This included identifying 10 potential health needs (PHNs) in these communities. These PHNs were those identified in previously conducted CHNAs. Data were analyzed to discover which, if any, of the PHNs were present in the hospital's service area. After these were identified, health needs were prioritized based on an analysis of primary data sources that described the PHN as a significant health need.

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

# **Description of Community Served**

The definition of the community served was the primary service area of SRMC, located in Roseville, California. The service area was defined by 21 ZIP Codes in southern Placer and northern Sacramento Counties. This service area was designated because the majority of patients served by SRMC resided in these ZIP Codes.

Though located in Placer County, the hospital serves a diverse population across both Placer and Sacramento Counties. Situated in Roseville along the I-80 corridor that runs from the San Francisco Bay area to Reno, Nevada and beyond, SRMC sits near the border of these two counties. In Placer County there were 11 ZIP Codes included in the service area and included communities such as Granite Bay, Lincoln, Loomis, Penryn, Rocklin, Roseville, and Sheridan. The total population of these ZIP Codes is 287,586. In Sacramento County there were 10 ZIP Codes included in the assessment, and these encompassed communities such as Antelope, Carmichael, Citrus Heights, Folsom, North Highlands, and Orangevale. The total population of these ZIP Codes is 415,837. Collectively, the SRMC service area is home to just over 700,000 residents. The Robert Wood Johnson's *County Health Rankings* ranked Placer the fourth healthiest county among California's 58, while Sacramento was ranked 31st. The service area is shown in Figure 3.

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<sup>&</sup>lt;sup>6</sup>See: http://www.countyhealthrankings.org/

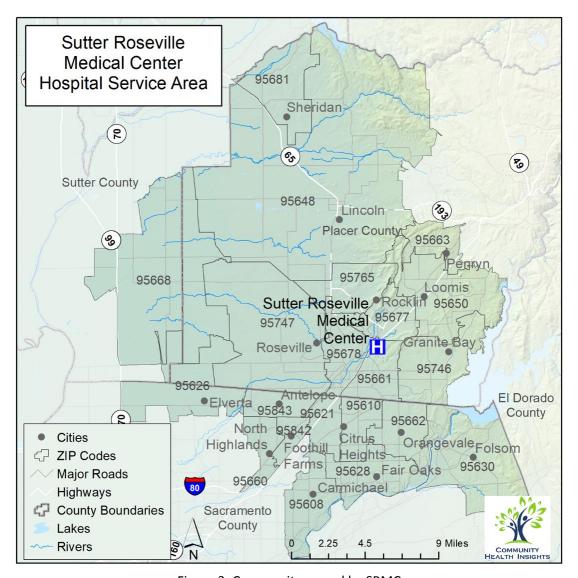


Figure 3: Community served by SRMC

Though neighboring counties, Placer and Sacramento have differences in the characteristics of their populations. For example, the median income for Placer County was \$76,926 compared to Sacramento County at \$57,509. The characteristics for each ZIP Code in the service area are presented in Table 1. These are compared to the state and county characteristics for descriptive purposes. Any ZIP Code with rates that varied negatively or performed poorly when compared to the state or county benchmark is highlighted. Each ZIP Code is compared to the rates of the county in which it resides.

Table 1: Population Characteristics for Each ZIP Code Located in the SRMC Service Area

| Table 1. Fopula      | Table 1: Population Characteristics for Each ZIP Code Located in the Skivic Service Area |            |            |               |           |              |             |                       |                                   |                   |
|----------------------|--|------------|------------|---------------|-----------|--------------|-------------|-----------------------|-----------------------------------|-------------------|
| ZIP Code             | Total Population   | % Minority | Median Age | Median Income | % Poverty | % Unemployed | % Uninsured | % No HS<br>Graduation | % Living in High<br>Housing Costs | % with Disability |
| 95608                | 60,199   | 28.5       | 44.2       | \$56,891      | 14.6      | 12.2         | 8.5         | 6.3                   | 38.8                              | 16.9              |
| 95610                | 44,711   | 31.2       | 36.8       | \$51,271      | 15.2      | 10.5         | 13.2        | 10.7                  | 40.2                              | 14.6              |
| 95621                | 41,908   | 30.2       | 38.4       | \$52,462      | 13.9      | 9.3          | 10.0        | 10.0                  | 39.9                              | 15.8              |
| 95626                | 5,871  | 21.6       | 40.9       | \$56,667      | 10.8      | 5.5          | 12.6        | 11.9                  | 33.6                              | 12.7              |
| 95628                | 41,649   | 20.9       | 44.9       | \$73,858      | 11.0      | 9.7          | 8.2         | 6.1                   | 34.2                              | 12.2              |
| 95630                | 74,905   | 36.0       | 40.3       | \$102,865     | 4.7       | 5.6          | 3.9         | 7.5                   | 30.7                              | 7.9               |
| 95660                | 34,303   | 53.9       | 31.8       | \$39,677      | 26.5      | 10.2         | 13.8        | 18.9                  | 45.9                              | 14.2              |
| 95662                | 32,441   | 17.4       | 41.2       | \$72,134      | 10.0      | 9.5          | 9.4         | 6.5                   | 36.2                              | 14.8              |
| 95842                | 32,184   | 46.8       | 32.7       | \$44,462      | 25.4      | 10.3         | 14.5        | 14.3                  | 44.5                              | 12.3              |
| 95843                | 47,666   | 42.8       | 32.1       | \$66,178      | 14.2      | 8.6          | 11.9        | 8.7                   | 40.7                              | 9.8               |
| Sacramento<br>County | 1,479,300  | 53.6       | 35.7       | \$57,509      | 17.9      | 10.2         | 10.4        | 13.2                  | 39.7                              | 12.7              |
| 95648                | 50,341   | 29.1       | 43.2       | \$76,901      | 9.0       | 6.7          | 6.7         | 7.0                   | 36.0                              | 11.5              |
| 95650                | 13,157   | 11.0       | 48         | \$84,851      | 5.4       | 7.7          | 10.0        | 3.2                   | 39.5                              | 10.1              |
| 95661                | 31,034   | 25.7       | 42.4       | \$78,154      | 8.5       | 5.9          | 7.0         | 5.3                   | 35.2                              | 11.2              |
| 95663                | 2,443  | 13.3       | 44         | \$100,221     | 6.8       | 3.0          | 5.0         | 3.4                   | 30.1                              | 10.4              |
| 95668                | 794  | 18.5       | 44.3       | \$68,333      | 12.8      | 7.2          | 10.1        | 10.0                  | 33.7                              | 17.0              |
| 95677                | 23,906   | 23.9       | 39.6       | \$73,641      | 11.3      | 8.7          | 7.7         | 5.0                   | 37.4                              | 10.6              |
| 95678                | 41,953   | 34.4       | 35.4       | \$63,008      | 11.6      | 7.0          | 10.0        | 8.7                   | 40.5                              | 11.0              |
| 95681                | 1,471  | 31.4       | 37.8       | \$52,292      | 25.3      | 10.4         | 31.1        | 24.6                  | 53.4                              | 23.5              |
| 95746                | 23,638   | 21.6       | 45.4       | \$123,093     | 3.0       | 6.7          | 5.8         | 2.0                   | 31.9                              | 7.7               |
| 95747                | 61,869   | 31.1       | 38.8       | \$96,394      | 6.2       | 6.7          | 4.5         | 4.3                   | 31.2                              | 9.4               |
| 95765                | 36,980   | 32.0       | 36.8       | \$92,250      | 6.5       | 6.1          | 6.1         | 3.3                   | 35.8                              | 8.0               |
| Placer<br>County     | 370,571  | 25.7       | 41.5       | \$76,926      | 8.7       | 7.0          | 7.7         | 5.8                   | 37.0                              | 11.0              |
| California           | 38,654,206   | 61.6       | 36         | \$63,783      | 15.8      | 8.7          | 12.6        | 17.9                  | 42.9                              | 10.6              |

(Source: 2012-2016 American Community Survey 5-year estimates; U.S. Census Bureau)

# **Community Health Vulnerability Index**

Figure 4 displays the Community Health Vulnerability Index (CHVI) for the SRMC service area. The CHVI is a composite index used to help describe the distribution of health disparities within the service area. Like the *Community Needs Index* or CNI<sup>7</sup> on which it is based, the CHVI combines multiple sociodemographic indicators (listed below) to help identify those locations experiencing health disparities. Higher CHVI values indicate a greater concentration of groups as being more likely to experience disparities.

<sup>7</sup> Barsi, E. and Roth, R. (2005) The Community Needs Index. *Health Progress*, Vol. 86, No. 4, pp. 32-38.

- Percentage Minority (Hispanic or Nonwhite)
- Population 5 Years or Older Who Speak Limited English
- Percentage 25 or Older without a High School Diploma
- Percentage Unemployed
- Percentage Uninsured

- Percentage Families with Children in Poverty
- Percentage Households 65 years or Older in Poverty
- Percentage Single-Female-Headed Households in Poverty
- Percentage Renter-Occupied Housing Units

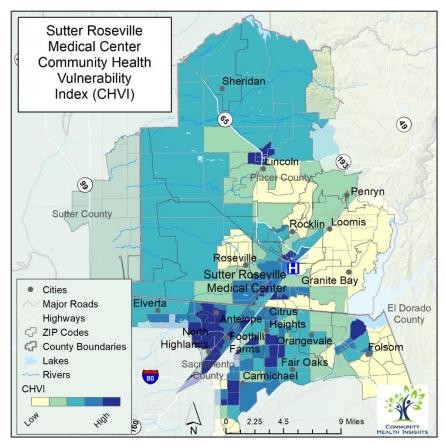


Figure 4: Community Health Vulnerability Index for SRMC

In the figure, the census tracts with the darkest shading had the highest overall CHVI scores (greatest vulnerability).

## **Communities of Concern**

Communities of Concern are geographic areas within the service area that have the greatest concentration of poor health outcomes and are home to more medically underserved, low income, and diverse populations at greater risk for poorer health. Communities of Concern are important to the overall CHNA methodology because, after the service area is assessed more broadly, they allow for a focus on those portions of the region likely experiencing the greatest health disparities. Geographic Communities of Concern were identified using a combination of primary and secondary data sources. (Refer to the technical section of this report for an in-depth description of how these are identified).

Analysis of both primary and secondary data revealed seven ZIP Codes that met the criteria to be classified as a Community of Concern. These are noted in ZIP Code order in Table 2, with the census population provided for each, and are displayed in Figure 5.

Table 2: Identified Communities of Concern for the SRMC Service Area

| ZIP Code  | Community/Area  | Population |
|-----------|---|------------|
| 95608     | Carmichael  | 60,199     |
| 95610     | Citrus Heights  | 44,711     |
| 95621     | Citrus Heights  | 41,908     |
| 95660     | North Highlands                                       | 34,303     |
| 95648     | Lincoln   | 50,341     |
| 95661     | Roseville   | 31,034     |
| 95678     | Roseville   | 41,953     |
|           | Total Population in Communities of Concern            | 415,837    |
|           | Total Population in Hospital Service Area             | 703,423    |
| Percentag | ge of Service Area Population in Community of Concern | 59.1%      |

(Source: 2012–2016 American Community Survey 5-year estimates; U.S. Census Bureau)

Figure 5 displays the ZIP Codes highlighted in pink that are Communities of Concern for the SRMC service area.

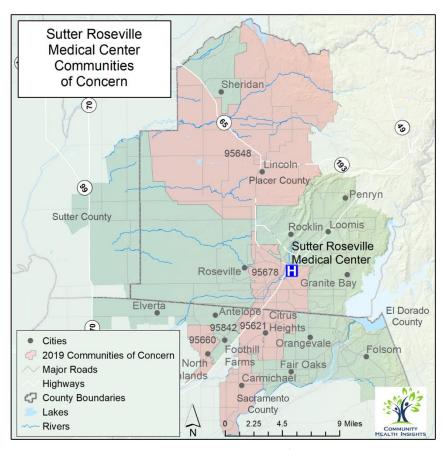


Figure 5: SRMC Communities of Concern

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

In all, 260 resources were identified in the SRMC service area that were potentially available to meet the identified significant health needs. These resources were provided by a total of 127 social-service, nonprofit, and governmental organizations, agencies, and programs identified in the CHNA. The identification method included starting with the list of resources from the *Sutter Roseville Medical Center and Sutter Auburn-Faith Hospital 2016 Community Health Need Assessment* and *Sutter Medical Center Sacramento and Sutter Center for Psychiatry 2016 Community Health Assessment*, verifying that the resources still existed, and then adding newly identified resources into the 2019 CHNA report. Examination of the resources revealed the following numbers of resources for each significant health need as shown in Table 3.

| Significant Health Needs (in Priority Order)          | Number of resources |
|---|---------------------|
| Access to mental/behavior/substance-abuse services    | 54                  |
| Access to quality primary healthcare services         | 38                  |
| Access to basic needs such as housing, jobs, and food | 64                  |
| Access and functional needs                           | 3                   |
| Injury and disease prevention and management          | 47                  |
| Access to specialty and extended care                 | 21                  |
| Active living and healthy eating                      | 33                  |
| Total Resources                                       | 260                 |

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

# Impact/Evaluation of Actions Taken by Hospital

Regulations require that each hospital's CHNA report include "an evaluation of the impact of any actions that were taken since the hospital facility finished conducting its immediately preceding CHNA to address the significant health needs identified in the hospital facility's prior CHNA(s) (p. 78969)." The following summarizes the impact of actions taken by SRMC.

Prior to this CHNA, SRMC conducted their most recent CHNA in 2016. The 2016 CHNA identified ten specific health needs. Working within its mission and capabilities, SRMC focused its implementation on 1) access to behavioral and healthcare services, 2) active living and healthy eating, 3) basic needs, and 4) affordable and accessible transportation. SRMC developed plans to address these health needs and the specific outcomes of these efforts are described below.

#### **ACCESS TO BEHAVIORAL HEALTH SERVICES**

## SRMC Triage, Transport, Treat (T3)

T3 provides case management services for people who frequently access the SRMC emergency department for inappropriate and non-urgent needs, by connecting vulnerable patients to vital resources such as housing, primary care, mental and behavioral health services, transportation, substance abuse treatment, and other key community resources.

• In 2016, T3 served 107 patients with 1,807 referrals to services, including behavioral health.

<sup>&</sup>lt;sup>8</sup> Federal Register, Vol. 79, No. 250, (Wednesday, December 31, 2014). Department of the Treasury, Internal Revenue Service.

In 2018, T3 served 186 patients with 5,091 referrals to services, including behavioral health.

#### **ACCESS TO HIGH QUALITY HEALTH CARE AND SERVICES**

## **Placer County Family Support Project**

Working with Placer County Health and Human Services and SRMC, an assigned public health nurse works with all maternal/infant care departments to assist staff in meeting the unique needs of Placer County families.

- In 2017, the program served 53 adults and 52 children and youth.
- In 2018, the program served 64 families providing 114 services.

## SRMC Emergency Department (ED) Navigator

The goal of the ED Navigator is to connect patients with health and social services, and ultimately a medical home, as well as other programs (like T3) when appropriate.

- In 2016, ED navigation served 221 patients with 582 referrals to services.
- In 2017, ED navigation served 175 patients.
- In 2018, ED navigation served 164 patients with 2,089 referrals to services.

## **Interim Care Program**

Offered in partnership with The Gathering Inn, the Placer Interim Care Program (ICP) is a respite-care shelter for homeless patients discharged from the hospital.

- In 2017, ICP served 48 clients.
- In 2018, ICP served 56 clients with 238 referrals to services.

#### **CREER en TU Salud Promotora Program**

The Promotora program provides culturally sensitive support to Spanish speaking patients in need of health and social services.

- In 2017, Creer en Tu Salud served 161 clients.
- In 2018, Creer en Tu Salud served 346 clients with 515 referrals to services.

## **ACTIVE LIVING AND HEALTHY EATING**

## **Fit Quest**

FitQuest Program is a comprehensive children's wellness program focusing on nutrition, fitness, and mental wellness.

- In 2016, FitQuest served 584 individuals in Placer County.
- In 2017, FitQuest served 700 youth and children across Placer and Sacramento Counties.
- In 2018, FitQuest served 478 youth and children in Placer County.

#### **Recreation and Respite**

The Recreation and Respite Adult Day Program is designed to offer a change of pace and sense of independence to seniors with physical or memory impairments, as well as support for their caregivers.

- In 2017, Recreation and Respite served 55 participants in the program.
- In 2018, Recreation and Respite served 86 participants in the program.

#### GoNoodle

GoNoodle is an early education physical and mental wellness program offered to schools throughout Placer County.

- In 2016, GoNoodle served 41,221 children across the Valley Area, including Placer and Sacramento Counties.
- In 2017, GoNoodle served 110,101 children across the Valley Area, including Placer and Sacramento Counties.
- In 2018, GoNoodle served 17,675 children in Placer County.

## BASIC NEEDS (FOOD SECURITY, HOUSING, ECONOMIC SECURITY, EDUCATION)

## **Placer County Whole Peron Care**

Sutter supported the county's Whole Person Care program in purchasing housing for individuals who are experiencing homelessness and often grappling with complex medical and social challenges.

- In 2017, Whole Person Care's housing supported 10 individuals, providing 394 combined bed nights.
- In 2018, Whole Person Care's housing supported 15 individuals, providing 5,091 combined bed nights.

## City of Roseville Homeless Prevention, Rapid Rehousing & Other Homeless Services

The City of Roseville completed a study to identify needs of the local homeless population and used that information to provide homeless prevention, rapid rehousing and other homeless services in Roseville to address identified needs.

- In 2017, the City of Roseville supported 2,058 individuals, providing 23,420 combined bed nights.
- In 2018, the City of Roseville supported 6,100 individuals, providing 46,302 combined bed nights.

#### AFFORDABLE AND ACCESSIBLE TRANSPORTATION

#### **Health Express**

Health Express provides non-emergency medical transportation on an advance reservation, shared-ride basis for eligible residents of Placer County.

- In 2017, Health Express connected 2,621 people with rides.
- In 2018, Health Express provided 7,136 rides to 3,533 people.

## Conclusion

Nonprofit hospitals play a vital role in the communities they serve. In addition to providing for the delivery of newborns and the treatment of disease, these important institutions work with and alongside other organizations to improve community health and well-being by working to prevent disease, improve access to healthcare, promote health education, eliminate health disparities, and similar tasks. CHNAs play an important role in helping nonprofit hospitals and other community organizations determine where to focus community benefit and improvement efforts, including geographic locations and specific populations living in their service area.

## **2019 CHNA Technical Section**

The following presents a detailed account of data collection, analysis, and results for the Sutter Roseville Medical Center (SRMC) hospital service area (HSA).

## **Results of Data Analysis**

## **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. Each value for Placer and Sacramento Counties was compared to the California state benchmark. Indicators where performance was worse in either county than in California are highlighted. The associated bar charts show rates for both counties compared to the California state rates.

## Length of Life

Table 4: Length of Life Indicators Compared to State Benchmarks

| Indicators                             | Description   | Placer  | Sacramento | California |
|--|---|---------|------------|------------|
| Early Life                             |   |         |            |            |
| Infant Mortality                       | Infant deaths per 1,000 live births                                 | 4.2     | 5.2        | 4.5        |
| Child Mortality                        | Deaths among children under age 18 per 100,000                      | 32.3    | 43.9       | 38.5       |
| Life Expectancy                        | Life expectancy at birth in years                                   | 81.1    | 79.0       | 80.9       |
| Overall                                |   |         |            |            |
| Age-Adjusted Mortality                 | Age-adjusted deaths per 100,000                                     | 649.9   | 744.8      | 651.6      |
| Premature Age-Adjusted Mortality       | Age-adjusted deaths among residents under age 75 per 100,000        | 242.5   | 321.6      | 268.8      |
| Years of Potential Life<br>Lost        | Age-adjusted years of potential life lost before age 75 per 100,000 | 4,740.9 | 6,240.3    | 5,217.3    |
| Chronic Disease                        |   |         |            |            |
| Stroke Mortality                       | Deaths per 100,000  | 45.5    | 42.3       | 37.5       |
| CLD Mortality                          | Deaths per 100,000  | 46.8    | 40.8       | 34.9       |
| Diabetes Mortality                     | Deaths per 100,000  | 21.3    | 25.8       | 22.1       |
| Heart Disease Mortality                | Deaths per 100,000  | 182.9   | 172.8      | 157.3      |
| Hypertension Mortality                 | Deaths per 100,000  | 13.5    | 15.2       | 12.6       |
| Cancer, Liver, and Kidney I            | Disease   |         |            |            |
| Cancer Mortality                       | Deaths per 100,000  | 203.0   | 170.3      | 153.4      |
| Liver Disease Mortality                | Deaths per 100,000  | 14.8    | 12.6       | 13.2       |
| Kidney Disease Mortality               | Deaths per 100,000  | 10.0    | 3.9        | 8.3        |
| Intentional and Unintentional Injuries |   |         |            |            |
| Suicide Mortality                      | Deaths per 100,000  | 13.0    | 13.7       | 10.8       |
| Unintentional Injury<br>Mortality      | Deaths per 100,000  | 35.9    | 37.6       | 31.2       |
| Other                                  |   |         |            |            |
| Alzheimer's Mortality                  | Deaths per 100,000  | 50.7    | 34.2       | 35.0       |
| Influenza and Pneumonia<br>Mortality   | Deaths per 100,000  | 14.2    | 16.1       | 16.0       |

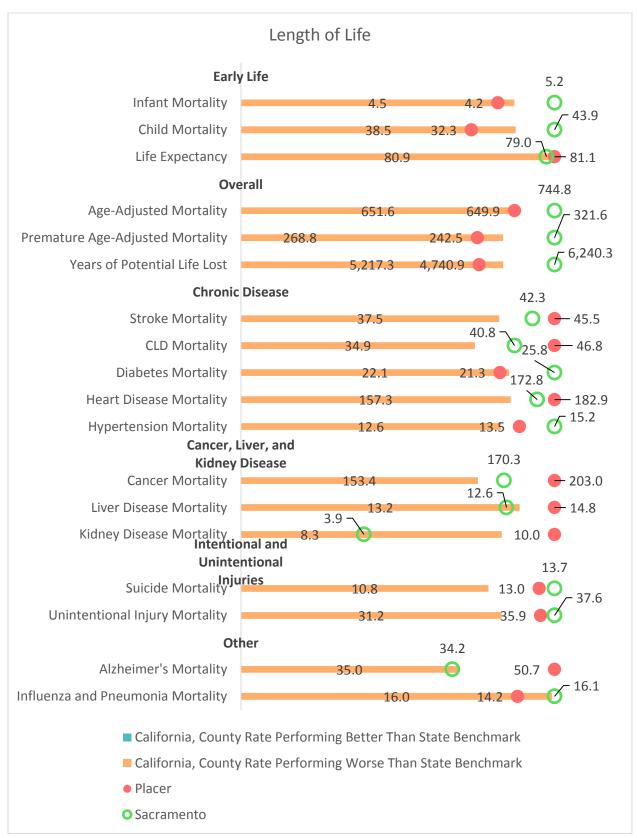


Figure 6: Length of life indicators

# **Quality of Life**

Table 5: Quality of Life Indicators Compared to State Benchmarks

| Indicators                   | Description  | Placer | Sacramento | California |
|------------------------------|--|--------|------------|------------|
| Chronic Disease              |  |        |            |            |
| Diabetes<br>Prevalence       | Percentage age 20 and older with diagnosed diabetes  | 7.9%   | 8.7%       | 8.5%       |
| Low Birth Weight             | Percentage of live births with birthweight below 2500 grams                                | 5.7%   | 6.8%       | 6.8%       |
| HIV Prevalence               | Persons age 13 or older with a(n) Human Immunodeficiency Virus (HIV) infection per 100,000 | 69.4   | 281.8      | 376.4      |
| Percentage with Disability   | Percentage of total civilian noninstitutionalized population with a disability             | 11.0%  | 12.7%      | 10.6%      |
| Mental Health                |  |        |            |            |
| Poor Mental Health Days      | Age-adjusted average number of mentally unhealthy days reported in past 30 days            | 3.4    | 3.8        | 3.5        |
| Poor Physical<br>Health Days | Age-adjusted average number of physically unhealthy days reported in past 30 days          | 3.1    | 3.7        | 3.5        |
| Cancer                       |  |        |            |            |
| Cancer Female<br>Breast      | Age-adjusted incidence per 100,000   | 136.8  | 132.3      | 120.6      |
| Cancer Colon and<br>Rectum   | Age-adjusted incidence per 100,000   | 34.8   | 40.4       | 37.1       |
| Cancer Lung and Bronchus     | Age-adjusted incidence per 100,000   | 46.4   | 55.6       | 44.6       |
| Cancer Prostate              | Age-adjusted incidence per 100,000   | 124.1  | 109.7      | 109.2      |

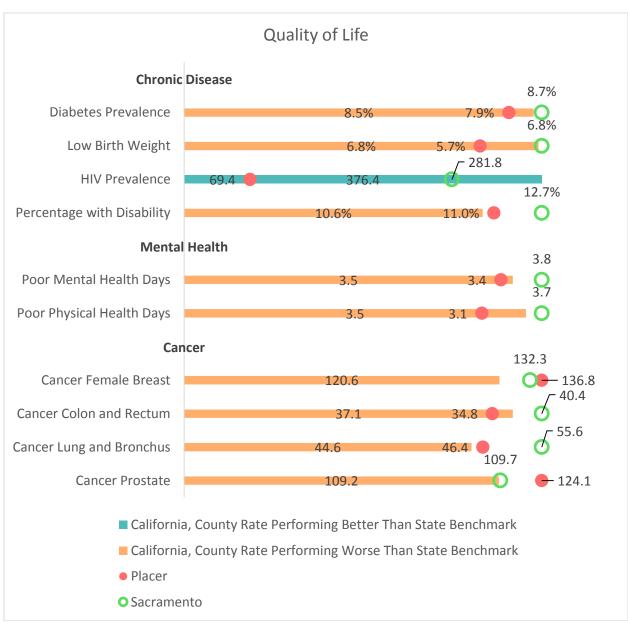


Figure 7: Quality of life indicators

# **Health Behaviors**

Table 6: Health Behavior Indicators Compared to State Benchmarks

| Indicators                        | Description  | Placer | Sacramento | California |
|-----------------------------------|--|--------|------------|------------|
| Excessive Drinking                | Percentage of adults reporting binge or heavy drinking                                 | 20.9%  | 18.9%      | 17.8%      |
| Drug Overdose<br>Deaths           | Age-adjusted deaths per 100,000  | 11.0   | 17.4       | 12.2       |
| Adult Obesity                     | Percentage of adults reporting BMI of 30 or more                                       | 20.7%  | 27.6%      | 22.7%      |
| Physical Inactivity               | Percentage age 20 and older with no reported leisure-time physical activity            | 14.8%  | 18.3%      | 17.9%      |
| Limited Access to<br>Healthy Food | Percentage of population that is low income and does not live close to a grocery store | 3.0%   | 4.4%       | 3.3%       |
| mRFEI                             | Percentage of food outlets that are classified as 'healthy'                            | 12.2%  | 12.4%      | 12.3%      |
| Access to Exercise                | Percentage of population with adequate access to locations for physical activity       | 78.3%  | 91.0%      | 89.6%      |
| STI Chlamydia<br>Rate             | Number of newly diagnosed chlamydia cases per 100,000                                  | 257.7  | 568.2      | 487.5      |
| Teen Birth Rate                   | Number of births per 1,000 females aged 15-19  | 10.0   | 24.3       | 24.1       |
| Adult Smokers                     | Percentage of adults who are current smokers   | 9.7%   | 12.5%      | 11.0%      |

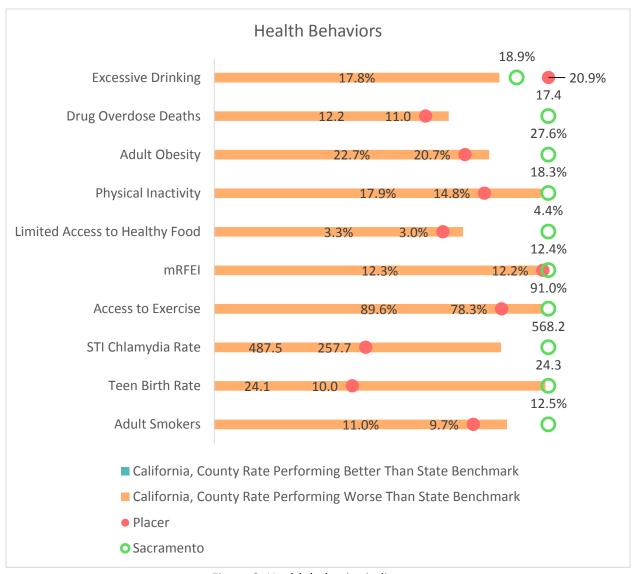


Figure 8: Health behavior indicators

## Clinical Care

Table 7: Clinical Care Indicators Compared to State Benchmarks

| Indicators        | Description                              | Placer  | Sacramento | California |
|-------------------|--|---------|------------|------------|
| Health Care Costs | Amount of price-adjusted Medicare        | \$7,581 | \$8,073    | \$9,100    |
|                   | reimbursements per enrollee              |         |            |            |
| HPSA Dental       | Reports if a portion of the county falls | Yes     | No         |            |
| Health            | within a Health Professional Shortage    |         |            |            |
|                   | Area                                     |         |            |            |
| HPSA Mental       | Reports if a portion of the county falls | Yes     | No         |            |
| Health            | within a Health Professional Shortage    |         |            |            |
|                   | Area                                     |         |            |            |
| HPSA Primary      | Reports if a portion of the county falls | Yes     | Yes        |            |
| Care              | within a Health Professional Shortage    |         |            |            |
|                   | Area                                     |         |            |            |
| HPSA Medically    | Reports if a portion of the county falls | No      | Yes        |            |
| Underserved Area  | within a Medically Underserved Area      |         |            |            |
| Mammography       | Percentage of female Medicare enrollees  | 71.3%   | 60.3%      | 59.7%      |
| Screening         | aged 67-69 that receive mammography      |         |            |            |
|                   | screening                                |         |            |            |
| Dentists          | Number per 100,000                       | 105.6   | 75.8       | 82.3       |
| Mental Health     | Number per 100,000                       | 264.9   | 339.5      | 308.2      |
| Providers         |  |         |            |            |
| Psychiatry        | Number per 100,000                       | 12.3    | 14.3       | 13.4       |
| Providers         |  |         |            |            |
| Specialty Care    | Number per 100,000                       | 205.6   | 214.1      | 183.2      |
| Providers         |  |         |            |            |
| Primary Care      | Number per 100,000                       | 119.6   | 81.5       | 78.0       |
| Physicians        |  |         |            |            |
| Preventable       | Number of hospital stays for ambulatory- | 30.6    | 37.1       | 36.2       |
| Hospital Stays    | care sensitive conditions per 1,000      |         |            |            |
|                   | Medicare enrollees                       |         |            |            |

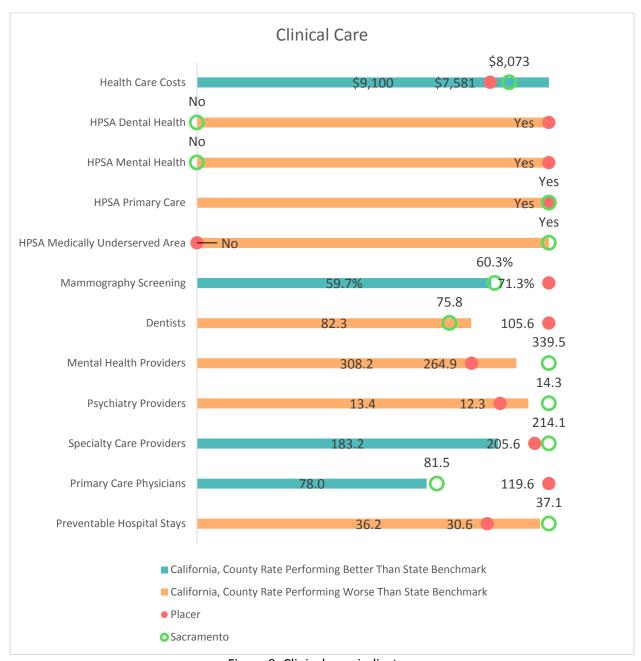


Figure 9: Clinical care indicators

# Social and Economic Factors

Table 8: Social and Economic Factor Indicators Compared to State Benchmarks

| Indicators       | Description                                 | Placer   | Sacramento | California |
|------------------|---|----------|------------|------------|
| Homicides        | Deaths per 100,000                          | 1.8      | 6.1        | 5.0        |
| Violent Crimes   | Reported violent crime offenses per 100,000 | 175.9    | 523.2      | 407.0      |
| Motor Vehicle    | Deaths per 100,000                          | 8.0      | 9.2        | 8.5        |
| Crash Deaths     |   |          |            |            |
| Some College     | Percentage aged 25-44 with some post-       | 77.2%    | 66.2%      | 63.5%      |
|                  | secondary education                         |          |            |            |
| High School      | Percentage of ninth-grade cohort            | 89.5%    | 80.6%      | 82.3%      |
| Graduation       | graduating high school in 4 years           |          |            |            |
| Unemployed       | Percentage of population 16 and older       | 4.4%     | 5.4%       | 5.4%       |
|                  | unemployed but seeking work                 |          |            |            |
| Children with    | Percentage of children living in a          | 22.1%    | 35.6%      | 31.8%      |
| Single Parents   | household headed by a single parent         |          |            |            |
| Social           | Membership associations per 100,000         | 7.6      | 7.2        | 5.8        |
| Associations     |   |          |            |            |
| Free and Reduced | Percentage of children in public schools    | 25.2%    | 58.9%      | 58.9%      |
| Lunch            | eligible for free or reduced-price lunch    |          |            |            |
| Children in      | Percentage of children under age 18 in      | 7.6%     | 23.1%      | 19.9%      |
| Poverty          | poverty                                     |          |            |            |
| Median           | Median household income                     | \$85,326 | \$59,728   | \$67,715   |
| Household        |   |          |            |            |
| Income           |   |          |            |            |
| Uninsured        | Percentage of population under age 65       | 5.4%     | 7.2%       | 9.7%       |
|                  | without health insurance                    |          |            |            |

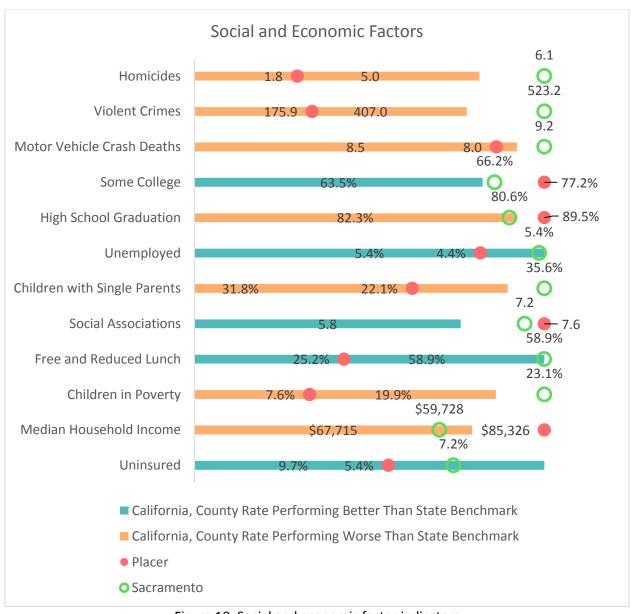


Figure 10: Social and economic factor indicators

# **Physical Environment**

Table 9: Physical Environment Indicators Compared to State Benchmarks

| Indicators                    | Description   | Placer | Sacramento | California |
|-------------------------------|---|--------|------------|------------|
| Severe Housing<br>Problems    | Percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, or lack of kitchen or plumbing facilities             | 19.9%  | 23.7%      | 27.9%      |
| Housing Units With No Vehicle | Percentage of households with no vehicle available  | 3.9%   | 7.5%       | 7.6%       |
| Public Transit<br>Proximity   | Percentage of population living in a<br>Census block within a quarter of a mile to<br>a fixed transit stop  | 29.6%  | 73.1%      | 50.0%      |
| Pollution Burden              | Percentage of population living in a<br>Census tract with a CalEnviroscreen<br>Pollution Burden score greater than the<br>50th percentile for the state | 7.0%   | 22.9%      | 50.4%      |
| Air Particulate<br>Matter     | Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5)  | 8.7    | 9.9        | 8.0        |
| Drinking Water<br>Violations  | Reports whether or not there was a health-related drinking water violation in a community within the county   | Yes    | Yes        |            |

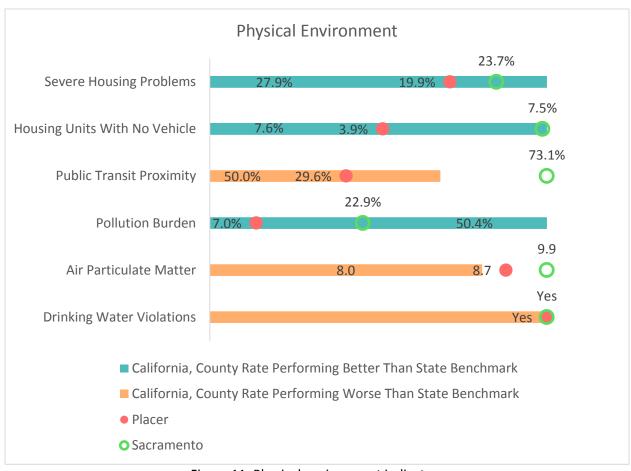


Figure 11: Physical environment indicators

#### **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 12. This model organizes populations' individual health-related characteristics in terms of how they relate to up- or downstream health and health-disparities factors. In this model, health outcomes (quality and length of life) are understood to result from the influence of health factors describing interrelated individual, environmental, and community characteristics, which in turn are influenced by underlying policies and programs.

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.

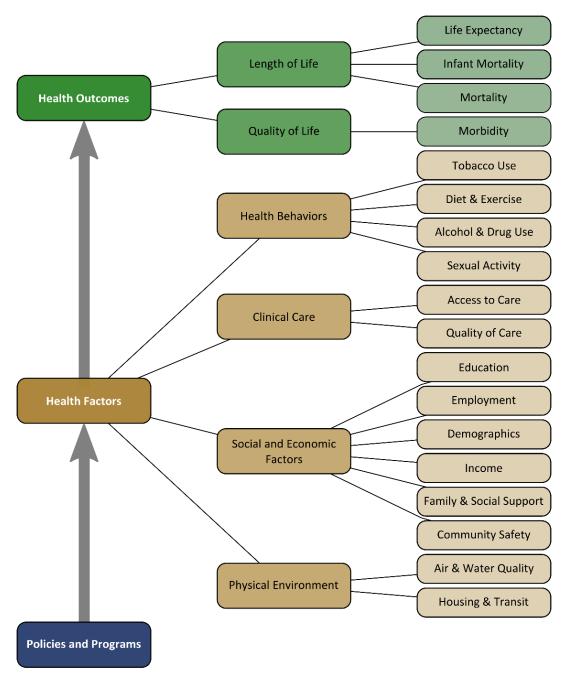


Figure 12: Community Health Assessment Conceptual Model as modified from the County Health Rankings Model, Robert Wood Johnson Foundation, and University of Wisconsin, 2015

### **Process Model**

Figure 13 outlines the data collection and analysis stages of the CHNA process. The project began by confirming the HSA for Sutter Roseville Medical Center for which the CHNA would be conducted. Primary data collection included both key informant and focus group interviews with community health experts and residents. Initial key informant interviews were used to identify Communities of Concern which are areas or population subgroups within the county experiencing health disparities.

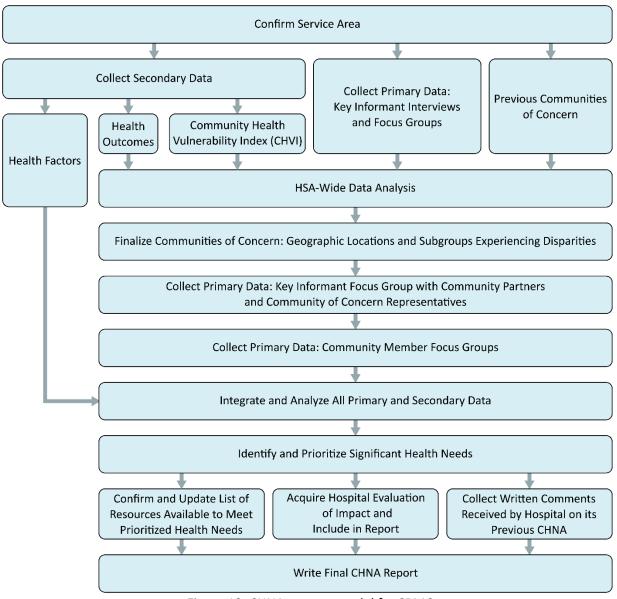


Figure 13: CHNA process model for SRMC

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

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

### **Primary Data Collection and Processing**

### **Primary Data Collection**

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

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

### **Key Informant Results**

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

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

Table 10 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 10: Key Informant List

| Organization                          | # Participants | Area of Expertise  | Populations Served   | Date    |
|---------------------------------------|----------------|--|--|---------|
| Mercy Medical Center                  | 38             | Community service providers                                      | Low income, minority, at risk residents of Placer County       | 5/23/19 |
| Mercy San Juan<br>Hospital            | 9              | Acute Care Hospital:<br>healthcare services                      | All residents of Sacramento<br>County                          | 6/19/18 |
| Mercy Hospital of Folsom              | 5              | Acute Care Hospital:<br>healthcare services                      | All residents of Sacramento<br>County                          | 6/21/18 |
| El Dorado Community<br>Health Centers | 1              | Healthcare Services  | Low income, medically underserved                              | 6/25/18 |
| Mutual Assistance<br>Network          |                | Community based organization: social and economic infrastructure | Low income; medically underserved, racial or ethnic minorities | 6/27/18 |

| Organization   | # Participants | Area of Expertise  | Populations Served  | Date    |
|--|----------------|--|---|---------|
| Placer County Public<br>Health                         | 2              | Public Health Officer/Director Assistant Public Health Director  | All residents of Placer County  | 3/19/19 |
| Placer County Public<br>Health                         | 5              | Communicable disease, immunization, emergency preparedness, homelessness, whole person care, oral health     | Low income, Medi-Cal,<br>homeless, children and families                  | 3/19/19 |
| The Gathering Inn 1                                    |                | Emergency housing and<br>Interim Care Program  | Low income and homeless in Roseville and Auburn                           | 4/3/19  |
| Latino Leadership<br>Council                           | 1              | Health, education, youth development services  | Latinos primarily in the western parts of Placer County                   | 4/3/19  |
| First 5 Placer County                                  | 1              | Maternal and child services  | Low income children and families in Placer County                         | 4/10/19 |
| Lighthouse Counseling and Family Resource Center       |                | Counseling services and education for families   | Low income, minority, at risk residents in Lincoln, Roseville and Rocklin | 4/10/19 |
| Sutter Roseville Medical Center and Wellspace 7 Health |                | Hospital healthcare provider<br>(6 participants) and<br>Federally Qualified Health<br>Center (1 participant) | Residents of Placer County including low income and medically underserved | 4/11/9  |

#### **Key Informant Interview Guide**

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

### 2019 CHNA Group / Key Informant Interview Protocol

- 1. Briefly, what is your current position and role within your organization?
- 2. How would you define the communities you serve and live in, as well as the population you serve?
- 3. What does a healthy environment look like?
- 4. When thinking about your community in the context of the healthy community you just described, what are the biggest health needs in the community?
- 5. What have been some emerging issues in the community that may influence health needs?
- 6. What challenges or barriers exist in the community to being healthy?
- 7. What are some solutions that can address the barriers and challenges that you have identified?
- 8. Based on what we have discussed so far, what are currently the most important or urgent top 3 health issues or challenges to address in order to improve the health of the community?
- 9. 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?
- 10. 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 living in geographic areas of the service area identified as locations or populations experiencing a disparate amount of poor socioeconomic conditions and poor health outcomes. Recruitment consisted of referrals from

designated service providers representing vulnerable populations, as well as direct outreach to special population groups.

Table 11 contains a listing of community focus groups that contributed input to the CHNA. The table describes the location of the focus group, the date it occurred, the total number of participants, and demographic information for focus group members.

Table 11: Focus Group List

| Location                                | Date    | # Participants | Demographic Information  |
|---|---------|----------------|--|
| Loa Family Community Development Center | 9/14/18 | 19             | Seniors within the Mien community  |
| Roberts Family Development<br>Center    | 9/26/18 | 8              | Community members from Del Paso Heights  |
| Mutual Assistance Network               | 9/26/18 | 8              | Community members from Arden Arcade  |
| Marconi Learning Academy                | 9/27/18 | 8              | Community members  |
| Natomas Community Center                | 10/4/18 | 7              | Community members – seniors  |
| The Gathering Inn                       | 5/2/19  | 11             | Homeless, low income, medically underserved                                      |
| Latino Leadership Council               | 5/6/19  | 8              | Latino community representatives, low income, medically underserved              |
| The Salt Mine                           | 5/10/19 | 6              | Community members from Lincoln, low income, food insecure, medically underserved |

# **Focus Group Interview Guide**

#### **2019 CHNA Focus Group Interview Protocol**

- 1. Let's start by introducing ourselves.
- 2. What do you think that a "healthy environment" is?
- 3. When thinking about your community based on the healthy environment you just described, what are the biggest health needs in your community?
- 4. What issues are coming up lately in the community that may influence health needs?
- 5. What are the challenges or barriers to being healthy in your community?
- 6. From your perspective, what health services are difficult to access for you and the people you know in your community?
- 7. What are some solutions that can help solve the barriers and challenges you talked about?
- 8. 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
  - a. Are these needs that have recently come up or have they been around for a long time?
  - b. What do you think has changed/stayed the same in the community since 2015 that makes these priorities less/more/equally pressing?
- 9. 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?
- 10. Are there certain groups or individuals that you think would be helpful to speak with as we go forward with our Community Health Needs Assessment?
- 11. Is there anything else you would like to share with our team about the health of the community?

### **Primary Data Processing**

Data were analyzed using NVivo 10 qualitative software. As needed, key informants were also asked to write data directly onto an HSA map for identification of vulnerable populations in the service area. Content analysis included thematic coding to potential health need categories, the identification of special populations experiencing health issues, and the identification of resources. In some instances, data were coded in accordance to the interview question guide. Results were aggregated to inform the determination of prioritized significant health needs.

# **Secondary Data Collection and Processing**

The secondary data used in the analysis can be thought of as falling into four categories. The first three are associated with the various stages outlined in the process model. These include 1) health outcome indicators, 2) Community Health Vulnerability Index (CHVI) data, and 3) health factor and health outcome indicators used to identify significant health needs. The fourth category of indicators is used to help describe the socioeconomic and demographic characteristics in the service area.

Mortality data at the ZIP Code level from the California Department of Public Health (CDPH) was used to represent health outcomes. U.S. Census Bureau data collected at the tract level was used to create the CHVI. Countywide indicators representing the concepts identified in the conceptual model and collected from multiple data sources were used in the identification of significant health needs. In the fourth category, U.S. Census Bureau data were collected at the state, county, and ZIP Code Tabulation Areas (ZCTA) levels and used to describe general socioeconomic and demographic characteristics in the area. This section details the sources and processing steps applied to the CDPH health outcome data; the U.S. Census Bureau data used to create the CHVI; the countywide indicators used to identify significant health needs; and the sources for the socioeconomic and demographic variables obtained from the U.S. Census Bureau.

#### **CDPH Health Outcome Data**

Mortality and birth-related data for each ZIP Code in the service area, as well as for the counties in which it was located, were collected from the California Department of Public Health (CDPH). The specific indicators used are listed in Table 12. To increase the stability of calculated rates for CDPH data, each of these indicators were collected for the years from 2012 to 2016. The specific processing steps used to derive these rates are described below.

Table 12: Mortality and Birth-Related Indicators Used in the CHNA

| Indicator   | ICD10 Codes                |
|---|----------------------------|
| Heart Disease Mortality                           | 100-109, 111, 113, 120-151 |
| Malignant Neoplasms (Cancer) Mortality            | C00-C97                    |
| Cerebrovascular Disease (Stroke) Mortality        | 160-169                    |
| Chronic Lower Respiratory Disease (CLD) Mortality | J40-J47                    |
| Alzheimer's Disease Mortality                     | G30                        |
| Unintentional Injuries (Accidents) Mortality      | V01-X59, Y85-Y86           |
| Diabetes Mellitus Mortality                       | E10-E14                    |
| Influenza and Pneumonia Mortality                 | J09-J18                    |
| Chronic Liver Disease and Cirrhosis Mortality     | K70, K73, K74              |

| Indicator                                     | ICD10 Codes               |
|---|---------------------------|
| Essential Hypertension and Hypertensive Renal | 110, 113, 115             |
| Disease Mortality                             |                           |
| Intentional Self-Harm (Suicide) Mortality     | U03, X60-X84, Y87.0       |
| Nephritis, Nephrotic Syndrome, and Nephrosis  | N00-N07, N17-N19, N25-N27 |
| (Kidney disease) Mortality                    |                           |
| Total Births                                  |                           |
| Deaths of Those Under 1 Year                  |                           |

#### **ZIP Code Definitions**

All CDPH indicators used at this stage of the analysis are reported by patient mailing ZIP Codes. 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, which is the main source of population and demographic information in the United States. 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, in combination with the health outcome data reported at the ZIP Code level, make it possible to calculate rates for each ZCTA. However, 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 California<sup>9</sup> were compared to ZCTA boundaries.<sup>10</sup> 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.

For example, 95611 is a PO Box located in Citrus Heights, California. ZIP Code 95611 is not represented by a ZCTA, but it could have reported patient data. Through the process identified above, it was found

<sup>&</sup>lt;sup>9</sup> Datasheer, L.L.C. (2018, July 16). *ZIP Code Database Free*. Retrieved from Zip-Codes.com: http://www.Zip-Codes.com

<sup>&</sup>lt;sup>10</sup> U.S. Census Bureau. (2017). *TIGER/Line Shapefile, 2017, 2010 nation, U.S., 2010 Census 5-Digit ZIP Code Tabulation Area (ZCTA5) National.* Retrieved July 16, 2018, from http://www.census.gov/geo/maps-data/data/tiger-line.html

that 95611 is located within the 95610 ZCTA. Data for both ZIP Codes 95611 and 95610 were therefore assigned to ZCTA 95610 and used to calculate rates. All ZIP Code level health outcome variables given in this report are therefore reporting approximate rates for ZCTAs, but for the sake of familiarity of terms they are elsewhere presented as ZIP Code rates.

### **Rate Smoothing**

All CDPH indicators were collected for all ZIP Codes in California. To protect privacy, CDPH masked the data for a given indicator if there were 10 or fewer cases reported in the ZIP Code. ZIP Codes with masked values were treated as having NA values reported, while ZIP Codes not included in a given year were assumed to have 0 cases for the associated indicator. As described above, patient records in ZIP Codes not represented by ZCTAs were added to those ZCTAs that they fell inside or were closest to.

When consolidating ZIP Codes into ZCTAs, if a PO Box ZIP Code with an NA value was combined with a non–PO Box ZIP Code with a reported value, then the NA value for the PO Box ZIP Code was converted to a 0. Thus, ZCTA values were recorded as NA only if all ZIP Codes contributing values to them had their values masked.

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, particularly those in rural areas, 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 2014 American Community Survey 5-year Estimates table DP05. Data for 2014 were used because this represented the central year of the 2012–2016 range of years for which CDPH data were collected.

ZCTAs with NA values recorded were treated as having a value of 0 when calculating the overall expected rates for a state during the smoothing process but were kept as NA for the individual ZCTA. This meant that smoothed rates could be calculated for indicators, but if a given ZCTA had a value of NA for a given indicator, it retained that NA value after smoothing.

<sup>&</sup>lt;sup>11</sup> Anselin, L. (2003). *Rate Maps and Smoothing*. Retrieved January 14, 2018 from http://www.dpi.inpe.br/gilberto/tutorials/software/geoda/tutorials/w6\_rates\_slides.pdf

Empirical Bayes smoothing was attempted for every overall indicator but could not be calculated for some. In these cases, raw rates were used instead. These smoothed or raw mortality rates were then multiplied by 100,000 so that the final rates represented deaths per 100,000 people.

# **Community Health Vulnerability Index (CHVI)**

The CHVI is a healthcare disparity index largely based on the *Community Need Index* (CNI) developed by Barsi and Roth. <sup>12</sup> The CHVI uses the same basic set of demographic indicators to address healthcare disparities as outlined in the CNI, but these indicators are aggregated in a different manner to create the CHVI. For this report, the nine indicators were obtained from the 2016 American Community Survey 5-year Estimate dataset at the census tract<sup>13</sup> level and are contained in Table 13.

Table 13: Indicators Used to Create the Community Health Vulnerability Index

| Indicator   | Description                      | Source Data Table | Variables Included    |
|-------------|----------------------------------|-------------------|-----------------------|
| Minority    | Percentage of the population     | B0302             | HD01_VD01, HD01_VD03  |
|             | that is Hispanic or reports at   |                   |                       |
|             | least one race that is not white |                   |                       |
| Limited     | Percentage of the population 5   | B16004            | HD01_DD01, HD01_VD07, |
| English     | years or older that speaks       |                   | HD01_VD08, HD01_VD12, |
|             | English less than "well"         |                   | HD01_VD13, HD01_VD17, |
|             |                                  |                   | HD01_VD18, HD01_VD22, |
|             |                                  |                   | HD01_VD23, HD01_VD29, |
|             |                                  |                   | HD01_VD30, HD01_VD34, |
|             |                                  |                   | HD01_VD35, HD01_VD39, |
|             |                                  |                   | HD01_VD40, HD01_VD44, |
|             |                                  |                   | HD01_VD45, HD01_VD51, |
|             |                                  |                   | HD01_VD52, HD01_VD56, |
|             |                                  |                   | HD01_VD57, HD01_VD61, |
|             |                                  |                   | HD01_VD62, HD01_VD66, |
|             |                                  |                   | HD01_VD67             |
| Not a High  | Percentage of population over    | S1501             | HC02_EST_VC17         |
| School      | 25 that are not high school      |                   |                       |
| Graduate    | graduates                        |                   |                       |
| Unemployed  | Unemployment rate among the      | S2301             | HC04_EST_VC01         |
|             | population 16 or older           |                   |                       |
| Families    | Percentage of families with      | S1702             | HC02_EST_VC02         |
| with        | children that are in poverty     |                   |                       |
| Children in |                                  |                   |                       |
| Poverty     |                                  |                   |                       |
| Elderly     | Percentage of households with    | B17017            | HD01_VD01, HD01_VD08, |
| Households  | householders 65 years or older   |                   | HD01_VD14, HD01_VD19, |
| in Poverty  | that are in poverty              |                   | HD01_VD25, HD01_VD30  |

<sup>&</sup>lt;sup>12</sup> Barsi, E. L., & Roth, R. (2005). The Community Needs Index. *Health Progress, 86*(4), 32-38. Retrieved from https://www.chausa.org/docs/default-source/health-progress/the-community-need-index-pdf.pdf?sfvrsn=2

<sup>&</sup>lt;sup>13</sup> Census tracts are data reporting regions created by the U.S. Census Bureau that roughly correspond to neighborhoods in urban areas but may be geographically much larger in rural locations.

| Indicator  | Description                      | Source Data Table | Variables Included   |
|------------|----------------------------------|-------------------|----------------------|
| Single-    | Percentage of single-female-     | S1702             | HC02_EST_VC02        |
| Female-    | headed households with           |                   |                      |
| Headed     | children that are in poverty     |                   |                      |
| Households |                                  |                   |                      |
| in Poverty |                                  |                   |                      |
| Renters    | Percentage of the population in  | B25008            | HD01_VD01, HD01_VD03 |
|            | renter-occupied housing units    |                   |                      |
| Uninsured  | Percentage of population that is | S2701             | HC05_EST_VC01        |
|            | uninsured                        |                   |                      |

Each indicator was scaled using a min-max stretch so that the tract with the maximum value for a given indicator within the study area received a value of 1, the tract with the minimum value for that same indicator within the study area received a 0, and all other tracts received some value between 0 and 1 proportional to their reported values. All scaled indicators were then summed to form the final CHVI. Areas with higher CHVI values therefore represent locations with relatively higher concentrations of the target index populations and are likely experiencing greater healthcare disparities.

# **Significant Health Need Identification Dataset**

The third set of secondary data used in the analysis were the health factor and health outcome indicators used to identify the significant health needs. The selection of these indicators was guided by the previously identified conceptual model. Table 14 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 14: Health Factor and Health Outcome Data Used in CHNA, Including Data Source and Time Period in Which the Data Were Collected

| Conce | Conceptual Model Alignment |                              | Indicator   | Data Source | Time Period |
|-------|----------------------------|------------------------------|---|-------------|-------------|
|       |                            | Infant Infant Mortality Pata |   | CHR*        | 2010-2016   |
|       | mortality<br>Life          |                              | Infant Mortality Rate                               | CHK         | 2010-2010   |
|       |                            | expectancy                   | Life Expectancy at Birth                            | CDPH**      | 2012-2016   |
|       |                            |                              | Age-adjusted mortality                              | CDPH        | 2012-2016   |
|       |                            |                              | Alzheimer's Disease mortality                       | CDPH        | 2012-2016   |
| S     |                            |                              | Child mortality                                     | CHR         | 2013-2016   |
| me    | ife                        | Length of life Wortality     | Premature Age-Adjusted mortality                    | CHR         | 2014-2016   |
| outco | Health outcomes            |                              | Premature death (Years of Potential Life Lost)      | CHR         | 2014-2016   |
| alth  |                            |                              | Cerebrovascular Disease (Stroke)                    | CDPH        | 2012-2016   |
| He    |                            |                              | Chronic Lower Respiratory Disease                   | CDPH        | 2012-2016   |
|       |                            |                              | Diabetes Mellitus                                   | CDPH        | 2012-2016   |
|       |                            |                              | Diseases of the Heart                               | CDPH        | 2012-2016   |
|       |                            |                              | Essential Hypertension & Hypertensive Renal Disease | CDPH        | 2012-2016   |
|       |                            |                              | Influenza and Pneumonia                             | CDPH        | 2012-2016   |
|       |                            |                              | Intentional Self Harm (Suicide)                     | CDPH        | 2012-2016   |

| Conceptual Model Alignment |                 | del Alignment           | Indicator  | Data Source            | Time Period                         |
|----------------------------|-----------------|-------------------------|--|------------------------|-------------------------------------|
|                            |                 |                         | Liver Disease  | CDPH                   | 2012-2016                           |
|                            |                 |                         | Malignant Neoplasms (Cancer)                         | CDPH                   | 2012-2016                           |
|                            |                 |                         | Nephritis, Nephrotic Syndrome and                    |                        |                                     |
|                            |                 |                         | Nephrosis (Kidney Disease)                           | CDPH                   | 2012-2016                           |
|                            |                 |                         | Unintentional Injuries (Accidents)                   | CDPH                   | 2012-2016                           |
|                            |                 |                         |  | California             |                                     |
|                            |                 |                         |  | Cancer                 | 2040 2044                           |
|                            |                 |                         | Breast Cancer Incidence                              | Registry<br>California | 2010-2014                           |
|                            |                 |                         |  | Cancer                 |                                     |
|                            |                 |                         | Colorectal Cancer Incidence                          | Registry               | 2010-2014                           |
|                            |                 |                         | Diabetes Prevalence                                  | CHR                    | 2014                                |
|                            | fe              |                         | Disability   | Census                 | 2016                                |
|                            | Quality of life |                         | HIV Prevalence Rate                                  | CHR                    | 2015                                |
|                            | lity            | Morbidity               | Low Birth Weight                                     | CHR                    | 2010-2016                           |
|                            | λua             |                         | Low Birth Weight                                     | California             | 2010-2010                           |
|                            |                 |                         |  | Cancer                 |                                     |
|                            |                 |                         | Lung Cancer Incidence                                | Registry               | 2010-2014                           |
|                            |                 |                         |  | California             |                                     |
|                            |                 |                         |  | Cancer                 | 2040 2044                           |
|                            |                 |                         | Prostate Cancer Incidence                            | Registry               | 2010-2014                           |
|                            |                 |                         | Poor Mental Health Days                              | CHR                    | 2016                                |
|                            |                 |                         | Poor Physical Health Days                            | CHR                    | 2016                                |
|                            |                 | Alcohol and<br>drug use | Excessive Drinking                                   | CHR                    | 2016                                |
|                            |                 |                         | Drug Overdose Deaths                                 | CDPH                   | 2014-2016                           |
|                            |                 |                         | Adult Obesity  | CHR                    | 2014                                |
|                            | J.              |                         | Physical Inactivity                                  | CHR                    | 2014                                |
|                            | avic            | Diet and                | Limited Access to Healthy Foods                      | CHR                    | 2015                                |
|                            | :h Beh          | Diet and exercise       | Modified Retail Food Environment Index (mRFEI)       | Census                 | 2016                                |
| ş                          | Healt           |                         | Access to Exercise Opportunities                     | CHR                    | 2010 population/<br>2016 facilities |
| Health factors             |                 | Sexual                  | Sexually Transmitted Infections (Chlamydia Rate)     | CHR                    | 2015                                |
| alth                       |                 | activity                | Teen Birth Rate                                      | CHR                    | 2010-2016                           |
| He                         |                 | Tobacco use             | Adult Smoking  | CHR                    | 2016                                |
|                            |                 |                         | Healthcare Costs                                     | CHR                    | 2015                                |
| d)                         | e               |                         | Health Professional Shortage Area -<br>Dental        | HRSA†                  | 2018                                |
|                            | Clinical care   | Access to care          | Health Professional Shortage Area -<br>Mental Health | HRSA                   | 2018                                |
|                            | Clini           | Cale                    | Heath Professional Shortage Area -<br>Primary Care   | HRSA                   | 2018                                |
|                            |                 |                         | Medically Underserved Areas                          | HRSA                   | 2018                                |
|                            |                 |                         | Mammography Screening                                | CHR                    | 2014                                |

| Conceptual Mo        | del Alignment  | Indicator   | Data Source          | Time Period             |
|----------------------|--|---|----------------------|-------------------------|
|                      |  | Dentists  | CHR                  | 2016                    |
|                      |  | Mental Health Providers   | CHR                  | 2017                    |
|                      |  | Psychiatrists   | HRSA                 |                         |
|                      |  | Specialty Care Providers  | HRSA                 |                         |
|                      |  | Primary Care Physicians   | CHR                  | 2015                    |
|                      | Quality care   | Preventable Hospital Stays (Ambulatory Care Sensitive Conditions) | CHR                  | 2015                    |
|                      | Company  | Homicide Rate   | CHR                  | 2010-2016               |
| ors                  | Community safety   | Violent Crime Rate  | CHR                  | 2012-2014               |
| fact                 | 54.557   | Motor Vehicle Crash Death Rate                                    | CHR                  | 2010-2016               |
| raphic               | Education  | Some College (Post-Secondary Education)                           | CHR                  | 2012-2016               |
| Bou                  |  | High School Graduation  | CHR                  | 2014-2015               |
| Der                  | Employment   | Unemployment  | CHR                  | 2016                    |
| nic/                 | Family and social  | Children in Single-Parent Households                              | CHR                  | 2012-2016               |
| onor                 | support  | Social Associations   | CHR                  | 2015                    |
| o a                  | Social & Education  Employment Family and social support  Income | Children Eligible for Free Lunch                                  | CHR                  | 2015-2016               |
| ial 8                |  | Children in Poverty   | CHR                  | 2016                    |
| Soc                  |  | Median Household Income   | CHR                  | 2016                    |
|                      |  | Uninsured   | CHR                  | 2015                    |
|                      |  | Severe Housing Problems   | CHR                  | 2010-2014               |
| ent                  | Housing and  | Households with No Vehicle  | Census               | 2012-2016               |
| ironm                | transit  | Access to Public Transit  | Census/<br>GTSF data | 2010,2012-<br>2016,2018 |
| Physical Environment | Air and  | Dellution Bundon Cons   | Cal-<br>EnviroScree  | 2047                    |
| hysi                 | water  | Pollution Burden Score  | n                    | 2017                    |
|                      | quality  | Air Pollution - Particulate Matter                                | CHR                  | 2012                    |
|                      |  | Drinking Water Violations   | CHR                  | 2016                    |

<sup>\*</sup> County Health Rankings

# **County Health Rankings Data**

All indicators listed with County Health Rankings (CHR) as their source were obtained from the 2018 County Health Rankings<sup>14</sup> dataset. This was the most common source of data, with 38 associated indicators included in the analysis. Indicators were collected at both the county and state levels. County-level indicators were used to represent the health factors and health outcomes in the service area. State-level indicators were collected to be used as benchmarks for comparison purposes. All variables included in the CHR dataset were obtained from other data providers. The original data providers for each CHR variable are given in Table 15.

<sup>\*\*</sup> California Department of Public Health

<sup>†</sup> Health Resources and Services Administration

<sup>&</sup>lt;sup>14</sup> Robert Wood Johnson Foundation. 2018. *County Health Rankings & Roadmaps*. Available online at: <a href="http://www.countyhealthrankings.org/">http://www.countyhealthrankings.org/</a>. Accessed July 10, 2018.

Table 15: County Health Rankings Dataset, Including Indicators, the Time Period the Data Were Collected, and the Original Source of the Data

| CHR Indicator   | Time Period                            | Original Data Provider  |
|---|--|---|
| Premature Death (Years of Potential Life Lost)                          | 2014–2016                              | National Center for Health Statistics - Mortality Files                     |
| Diabetes Prevalence   | 2014                                   | CDC Diabetes Interactive Atlas  |
| HIV Prevalence Rate   | 2015                                   | National Center for HIV/AIDS, Viral Hepatitis, STD,                         |
|   |  | and TB Prevention   |
| Low Birth Weight  | 2010–2016                              | National Center for Health Statistics - Natality Files                      |
| Poor Mental Health Days   | 2016                                   | Behavioral Risk Factor Surveillance System                                  |
| Poor Physical Health Days   | 2016                                   | Behavioral Risk Factor Surveillance System                                  |
| Excessive Drinking  | 2016                                   | Behavioral Risk Factor Surveillance System                                  |
| Adult Obesity   | 2014                                   | CDC Diabetes Interactive Atlas  |
| Physical Inactivity   | 2014                                   | CDC Diabetes Interactive Atlas  |
| Limited Access to Healthy Foods   | 2015                                   | USDA Food Environment Atlas   |
| Access to Exercise Opportunities  | 2010<br>population/<br>2016 facilities | Business Analyst, Delorme Map Data, ESRI, & U.S.<br>Census Tiger Line Files |
| Sexually Transmitted Infections (Chlamydia Rate)                        | 2015                                   | National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention       |
| Teen Birth Rate   | 2010–2016                              | National Center for Health Statistics - Natality Files                      |
| Adult Smoking   | 2016                                   | Behavioral Risk Factor Surveillance System                                  |
| Healthcare Costs  | 2015                                   | Dartmouth Atlas of Healthcare   |
| Mammography Screening   | 2014                                   | Dartmouth Atlas of Healthcare   |
| Dentists  | 2016                                   | Area Health Resource File/National Provider Identification File             |
| Mental Health Providers   | 2017                                   | CMS, National Provider Identification                                       |
| Primary Care Physicians   | 2015                                   | Area Health Resource File/American Medical Association                      |
| Preventable Hospital Stays<br>(Ambulatory Care Sensitive<br>Conditions) | 2015                                   | Dartmouth Atlas of Healthcare   |
| Homicide Rate   | 2010–2016                              | CDC WONDER Mortality Data   |
| Violent Crime Rate  | 2012–2014                              | Uniform Crime Reporting - FBI   |
| Motor Vehicle Crash Death<br>Rate                                       | 2010–2016                              | CDC WONDER Mortality Data   |
| Some College<br>(Postsecondary Education)                               | 2012–2016                              | American Community Survey, 5-Year Estimates                                 |
| High School Graduation  | 2014–2015                              | California Department of Education  |
| Unemployment  | 2016                                   | Bureau of Labor Statistics Local Area Unemployment Statistics               |
| Children in Single-Parent<br>Households                                 | 2012–2016                              | ACS 5-Year Estimates  |

| CHR Indicator                       | Time Period | Original Data Provider                                       |
|-------------------------------------|-------------|--|
| Social Associations                 | 2015        | County Business Patterns                                     |
| Children Eligible for Free<br>Lunch | 2015–2016   | National Center for Education Statistics                     |
| Children in Poverty                 | 2016        | U.S. Census Bureau Small Area Income and Poverty Estimates   |
| Median Household Income             | 2016        | U.S. Census Bureau Small Area Income and Poverty Estimates   |
| Uninsured                           | 2015        | U.S. Census Bureau Small Area Health Insurance Estimates     |
| Severe Housing Problems             | 2010–2014   | HUD Comprehensive Housing Affordability Strategy (CHAS) Data |
| Air Pollution - Particulate         | 2012        | CDC's National Environmental Public Health Tracking          |
| Matter                              |             | Network  |
| Drinking Water Violations           | 2016        | Safe Drinking Water Information System                       |

### **California Department of Public Health Data**

The next most common sources of health outcome and health factor variables used for health need identification were the California Department of Public Health (CDPH). These included the same bycause mortality rates as those described previously. But in this case, they were calculated at the county level to represent health conditions in the county and at the state level to be used as comparative benchmarks. CDPH County-level rates were smoothed using the same process described previously. State-level rates were not smoothed.

In addition to the by-cause mortality rates, age-stratified rates were also used to calculate age-adjusted all-cause mortality rates and life expectancy at birth for the counties and the state. This was done by dividing the number of deaths in each age category as reported in the 2014 American Community Survey 5-year estimates Table DP05. Because estimates of age under age 1 and from ages 1 to 4 were not available in the American Community Survey datasets used in this analysis, the proportion of the population under age 5 that was also under age 1 was calculated using 2010 decennial Census data for each geographic area. These proportions were then compared to the population under 5 reported in the American Community Survey datasets for each geographic area to estimate the values for the population under 1 and from 1 to 4. These estimated values were then used to calculate age stratified rates. Age-stratified EBR were used whenever possible. Each age-stratified rate was then multiplied by the appropriate coefficient from the US standard 2000 population. To calculate age-adjusted all-cause mortality, the resulting values were then summed and multiplied by 100,000 to create age-adjusted rates per 100,000 people.

<sup>&</sup>lt;sup>15</sup> National Cancer Institute Surveillance, Epidemiology, and End Results Program. 2018. *Standard Populations* – 19 *Age Groups*. Available online at: <a href="https://seer.cancer.gov/stdpopulations/stdpop.19ages.html">https://seer.cancer.gov/stdpopulations/stdpop.19ages.html</a>. Last accessed July 18, 2018.

Life expectancy at birth values are reported in years and were derived from period life tables created in the statistical software program R<sup>16</sup> using the Human Ecology, Evolution, and Health Lab's<sup>17</sup> example period life table function. This function was modified to calculate life tables for each county and state, and to allow the life table to be calculated from the pre-calculated, smoothed, age-stratified mortality rates.

Drug overdose death rates were also obtained from CDPH. This indicator reports age-adjusted drug-induced death rates for counties and the state from 2014 to 2016 as reported in the 2018 County Health Status Profiles.<sup>18</sup>

#### **HRSA Data**

Indicators related to the availability of healthcare providers were obtained from the Health Resources and Services Administration<sup>19</sup> (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.

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.

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 nonfederal, excluding hospital residents and those 75 years of age or older) from the total number of physicians (both MDs and DOs, patient care, nonfederal) in 2015. This number was then divided by the 2015 total population given in the 2015 American Community Survey 5-year Estimates table B01003, and then multiplied by 100,000 to give the total number of specialty care physicians per 100,000 residents. The total of specialty care physicians in each county was summed to find the total specialty care physicians in the state, and state rates were calculated following the same approach as used for county rates. This same process was also used to calculate the number of psychiatrists per 100,000 for each county and the state using the number of total patient care, nonfederal psychiatrists

<sup>&</sup>lt;sup>16</sup> R Development Core Team. (2018). *R: A language and environment for statistical computing*. Vienna, Austria: R Foundation for Statistical Computing, Vienna, Austria. ISBN 3-900051-07-0, URL http://www.R-project.org.

<sup>&</sup>lt;sup>17</sup> Human Ecology, Evolution, and Health Lab. (2009, March 2). *Life tables and R programming: Period Life Table Construction*. Retrieved February 16, 2013, from Formal Demogrpahy Workshops, 2006 Workshop Labs: http://www.stanford.edu/group/heeh/cgi-bin/web/node/75

<sup>&</sup>lt;sup>18</sup> California Department of Public Health. (2018). *County Health Status Profiles 2018*. Retrieved October 23, 2018 from https://www.cdph.ca.gov/Programs/CHSI/Pages/County-Health-Status-Profiles.aspx

<sup>&</sup>lt;sup>19</sup> Health Resources and Services Administration. (2018). *Data Downloads*. Retrieved June 19 and August 1, 2018 from https://data.hrsa.gov/data/download

from the Area Health Resource Files. It should be noted that psychiatrists are included in the list of specialty care physicians, so that indicator represents a subset of specialty care providers rather than a separate group.

# **California Cancer Registry**

Data obtained from the California Cancer Registry<sup>20</sup> included 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 2010 to 2014, 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.

#### **Census Data**

Data from the U.S. Census Bureau were used to calculate three additional indicators: the percentage of households with no vehicle available, the percentage of the civilian noninstitutionalized population with some disability, and the Modified Retail Food Environment Index (mRFEI). The sources for the indicators used are given in Table 16.

Table 16: Detailed Description of Data Used to Calculate Percentage of Population with Disabilities, Households without a Vehicle, and the mRFEI

| Indicator       | Source Data<br>Table | Variable       | NAICS<br>Code | Employee Size<br>Category | Data Source   |
|-----------------|----------------------|----------------|---------------|---------------------------|---------------|
| Percentage with | S1810                | HC03_EST_VC01  |               |                           | 2016          |
| Disability      |                      |                |               |                           | American      |
| Households with | DP04                 | HC03_VC85      |               |                           | Community     |
| No Vehicle      |                      |                |               |                           | Survey 5-Year |
| Available       |                      |                |               |                           | Estimates     |
| Large Grocery   | BP_2016_00A3         | Number of      | 445110        | 10 or More                | 2016 County   |
| Stores          |                      | Establishments |               | Employees                 | Business      |
| Fruit and       | BP_2016_00A3         | Number of      | 445230        | All                       | Patterns      |
| Vegetable       |                      | Establishments |               | Establishments            |               |
| Markets         |                      |                |               |                           |               |
| Warehouse Clubs | BP_2016_00A3         | Number of      | 452910        | All                       |               |
|                 |                      | Establishments |               | Establishments            |               |
| Small Grocery   | BP_2016_00A3         | Number of      | 445110        | 1 to 4                    |               |
| Stores          |                      | Establishments |               | Employees                 |               |
| Limited-Service | BP_2016_00A3         | Number of      | 722513        | All                       |               |
| Restaurants     |                      | Establishments |               | Establishments            |               |
| Convenience     | BP_2016_00A3         | Number of      | 445120        | All                       |               |
| Stores          |                      | Establishments |               | Establishments            |               |

The mRFEI indicator reports the percentage of the total food outlets in a ZCTA that are considered healthy food outlets. The mRFEI indicator was calculated using a modification of the methods described

<sup>20</sup> California Cancer Registry. (2018). *Age-Adjusted Invasive Cancer Incidence Rates in California*. Retrieved May 11, 2018 from https://www.cancer-rates.info/ca/

by the National Center for Chronic Disease Prevention and Health Promotion<sup>21</sup> using data obtained from the U.S. Census Bureau's 2016 County Business Pattern datasets.

Healthy food retailers were defined based on North American Industrial Classification Codes (NAICS), and included large grocery stores, fruit and vegetable markets, and warehouse clubs. Food retailers that were considered less healthy included small grocery stores, limited-service restaurants, and convenience stores.

To calculate the mRFEI, the total number of health food retailers was divided by the total number of healthy and less healthy food retailers, and the result was multiplied by 100 to calculate the final mRFEI value for each county and for the state.

#### CalEnviroScreen Data

CalEnviroScreen<sup>22</sup> is a dataset produced by CalEPA. It includes multiple indicators associated with various forms of pollution for census tracts within the state. These include multiple measures of air and water pollution, pesticides, toxic releases, traffic density, cleanup sites, groundwater threats, hazardous waste, solid waste, and impaired bodies of water. One indicator, pollution burden, combines all of these measures to generate an overall index of pollution for each tract. To generate a county-level pollution-burden measure, the percentage of the population residing in census tracts with pollution-burden scores greater than or equal to the 50<sup>th</sup> percentile was calculated for each county as well as for the state.

# **Google Transit Feed Specification (GTFS) Data**

The final indicator used to identify significant health needs was proximity to public transportation. This indicator reports the percentage of a county's population that lives in a census block located within a quarter mile of a fixed transit stop. Census block data from 2010 (the most recent year available) was used to measure population.

An extensive search was conducted to identify stop locations for transportation agencies in the service area. Many transportation agencies publish their route and stop locations using the standard GTFS data format. Listings for agencies covering the service area were reviewed at TransitFeeds (<a href="https://transitfeeds.com">https://transitfeeds.com</a>) and Trillium (<a href="https://trilliumtransit.com/gtfs/our-work/">https://trilliumtransit.com/gtfs/our-work/</a>). These were compared to the list of feeds used by Google Maps (<a href="https://www.google.com/landing/transit/cities/index.html#NorthAmerica">https://www.google.com/landing/transit/cities/index.html#NorthAmerica</a>) to try to maximize coverage.

Table 17 notes the agencies for which transit stops could be obtained. It should be noted that while every attempt was made to include as comprehensive a list of data sources as possible, there may be transit stops associated with agencies not included in this list in the county. Caution should therefore be used in interpreting this indicator.

<sup>&</sup>lt;sup>21</sup> National Center for Chronic Disease Prevention and Health Promotion. (2011). *Census Tract Level State Maps of the Modified Retail Food Environment Index (mRFEI)*. Centers for Disease Control. Retrieved Jan 11, 2016, from http://ftp.cdc.gov/pub/Publications/dnpao/census-tract-level-state-maps-mrfei\_TAG508.pdf

<sup>&</sup>lt;sup>22</sup> CalEPA. 2018. CalEnviroscreen 3.0 Shapefile. Available online at: <a href="https://data.ca.gov/dataset/calenviroscreen-30">https://data.ca.gov/dataset/calenviroscreen-30</a>. Last accessed: May 26, 2018.

Table 17: Transportation Agencies Used to Compile the Proximity to Public Transportation Indicator

| County                                | Agency   |
|---------------------------------------|--|
| Nevada County                         | Gold Country Stage   |
| Placer County (outside of Tahoe area) | Roseville Transit (Doesn't include Lincoln Transit, Placer County Transit, Rocklin Transit, or Auburn Transit) |
| Sacramento County                     | SacRT, Elk Grove e-Trans, Folsom Stage Line (doesn't include South County Transit)                             |

# **Descriptive Socioeconomic and Demographic Data**

The final secondary dataset used in this analysis was comprised of multiple socioeconomic and demographic indicators collected at the ZCTA, county, and state level. These data were not used in an analytical context. Rather, they were used to provide a description of the overall population characteristics within the county. Table 18 lists each of these indicators as well as their sources.

Table 18: Descriptive Socioeconomic and Demographic Data Descriptions

| Indicator                     | Description  | Source Data<br>Table | Variables Included  |  |
|-------------------------------|--|----------------------|---|--|
| Population                    | Total population   | DP05                 | HC01_VC03   |  |
| Minority                      | Percentage of the population that is Hispanic or reports at least one race that is not white | B0302                | HD01_VD01, HD01_VD03  |  |
| Median Age                    | Median age of the population   | DP05                 | HC01_VC23   |  |
| Median Income                 | Median household income  | S2503                | HC01_EST_VC14   |  |
| Poverty                       | Percentage of population below the poverty level   | S1701                | HC03_EST_VC01   |  |
| Unemployed                    | Unemployment rate among the population 16 or older   | S2301                | HC04_EST_VC01   |  |
| Uninsured                     | Percentage of population without health insurance  | S2701                | HC05_EST_VC01   |  |
| Not a High<br>School Graduate | Percentage of population over 25 that are not high school graduates                          | S1501                | HC02_EST_VC17   |  |
| High Housing<br>Costs         | Percentage of the population for whom total housing costs exceed 30% of income               | S2503                | HC01_EST_VC33,<br>HC01_EST_VC37,<br>HC01_EST_VC41,<br>HC01_EST_VC45,<br>HC01_EST_VC49 |  |
| Disability                    | Percentage of civilian noninstitutionalized population with a disability                     | S1810                | HC03_EST_VC01   |  |

### **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 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 was combined with secondary health need identification data to identify significant health needs within the service area. Finally, primary data was used to prioritize those identified significant health needs. The specific details for these analytical steps are given in the following three sections.

# **Community of Concern Identification**

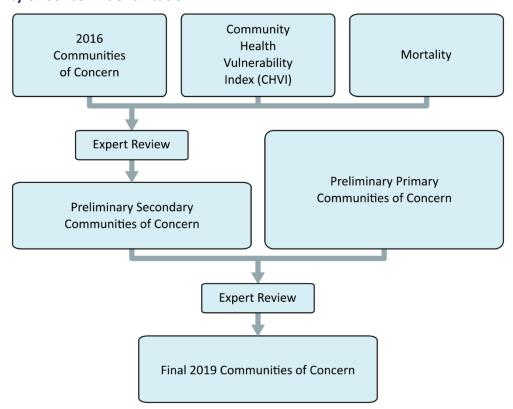


Figure 14: Process followed to identify Communities of Concern

As illustrated in Figure 14, the 2019 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 2016 CHNA; the census tract-level Community Health Vulnerability Index (CHVI); and the CDPH ZCTA-level mortality data.

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

### 2016 Community of Concern

The ZCTA was included in the 2016 CHNA Community of Concern list for the HSA. This was done to allow greater continuity between CHNA rounds and reflects the work of the hospital systems oriented to serve these disadvantaged communities.

### **Community Health Vulnerability Index (CHVI)**

The ZCTA intersected a census tract whose CHVI value fell within the top 20% of the HSA. 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.

### **Mortality**

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, and infant mortality rates per 1,000 live births. The number of times each ZCTA's rates for these indicators fell within the top 20% in the HSA was counted. Those ZCTAs whose counted values exceeded the 80<sup>th</sup> percentile for all of the ZCTAs in the HSA met the Community of Concern mortality selection criteria.

### Integration of Secondary Criteria

Any ZCTA that met any of the three selection criteria (2016 Community of Concern, CHVI, and Mortality) was reviewed for inclusion as a 2019 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.

### **Preliminary Primary Communities of Concern**

Preliminary 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 2019 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 2019 Communities of Concern.

### **Significant Health Need Identification**

The general methods through which significant health needs (SHNs) were identified are shown in Figure 15 and described here in greater detail. The first step in this process was to identify a set of potential health needs (PHNs) from which significant health needs could be selected. This was done by reviewing the health needs identified during the 2016 CHNA among various hospitals throughout northern California and then supplementing this list based on a preliminary analysis of the primary qualitative data collected for the 2019 CHNA. This resulted in a list of 10 PHNs shown in Table 19.

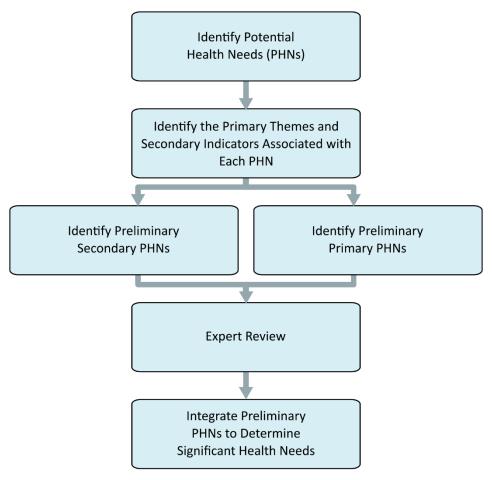


Figure 15: Process followed to identify Significant Health Needs

Table 19: Potential Health Needs

| 2019 Potential Health Needs (PHNs) |   |  |  |  |
|------------------------------------|---|--|--|--|
| PHN1                               | Access to Mental/Behavioral/Substance-Abuse 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                               | Pollution-Free Living Environment                     |  |  |  |
| PHN7                               | Access to Basic Needs such as Housing, Jobs, and Food |  |  |  |
| PHN8                               | Access and Functional Needs                           |  |  |  |
| PHN9                               | Access to Specialty and Extended Care                 |  |  |  |
| PHN10                              | Injury and Disease Prevention and Management          |  |  |  |

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 20. Primary theme associations were used to guide coding of the primary data sources to specific PHNs.

Table 20: Primary Theme and Secondary Indicators Used to Identify Significant Health Needs

| Health<br>Need<br>Number | 2019 CHI<br>Potential<br>Health<br>Needs                               | 2019 CHI Secondary Indicators  | Primary Indicators  |
|--------------------------|--|--|---|
| PHN1                     | Access to<br>Mental/<br>Behavioral/<br>Substance-<br>Abuse<br>Services | <ul> <li>Liver Disease Mortality</li> <li>Suicide Mortality</li> <li>Poor Mental Health Days</li> <li>Poor Physical Health Days</li> <li>Drug Overdose Deaths</li> <li>Excessive Drinking</li> <li>Health Professional Shortage Area – Mental Health</li> <li>Mental Health Providers</li> <li>Psychiatrists</li> <li>Social Associations</li> </ul>   | <ul> <li>Self-Injury</li> <li>Mental Health and Coping<br/>Issues</li> <li>Substance Abuse</li> <li>Smoking</li> <li>Stress</li> <li>Mentally III and Homeless</li> <li>PTSD</li> <li>Access to Psychiatrist</li> <li>Homelessness</li> </ul> |
| PHN2                     | Access to<br>Quality<br>Primary Care<br>Health<br>Services             | <ul> <li>Cancer Mortality</li> <li>Chronic Lower Respiratory Disease Mortality</li> <li>Diabetes Mortality</li> <li>Heart Disease Mortality</li> <li>Hypertension Mortality</li> <li>Influenza and Pneumonia Mortality</li> <li>Kidney Disease Mortality</li> <li>Liver Disease Mortality</li> <li>Stroke Mortality</li> <li>Breast Cancer Incidence</li> <li>Colorectal Cancer Incidence</li> <li>Diabetes Prevalence</li> <li>Low Birth Weight</li> <li>Lung Cancer Incidence</li> <li>Prostate Cancer Incidence</li> <li>Healthcare Costs</li> <li>Health Professional Shortage Area – Primary Care</li> <li>Medically Underserved Areas</li> <li>Mammography Screening</li> <li>Primary Care Physicians</li> <li>Preventable Hospital Stays</li> <li>Percentage Uninsured</li> </ul> | Issue of Quality of Care     Access to Care     Health Insurance     Care for Cancer/Cancer     Occurrence     Indicators in PQI: Diabetes,     COPD, CRLD, HTN, HTD,     Asthma, Pneumonia   |

| Health<br>Need<br>Number | 2019 CHI<br>Potential<br>Health<br>Needs      | 2019 CHI Secondary Indicators   | Primary Indicators   |
|--------------------------|---|---|--|
| PHN3                     | Active Living<br>and Healthy<br>Eating        | <ul> <li>Cancer Mortality</li> <li>Diabetes Mortality</li> <li>Heart Disease Mortality</li> <li>Hypertension Mortality</li> <li>Kidney Disease Mortality</li> <li>Stroke Mortality</li> <li>Breast Cancer Incidence</li> <li>Colorectal Cancer Incidence</li> <li>Diabetes Prevalence</li> <li>Prostate Cancer Incidence</li> <li>Limited Access to Healthy Foods</li> <li>mRFEI</li> <li>Access to Exercise Opportunities</li> <li>Physical Inactivity</li> <li>Adult Obesity</li> </ul> | <ul> <li>Food Access/Insecurity</li> <li>Community Gardens</li> <li>Fresh Fruits and Veggies</li> <li>Distance to Grocery Stores</li> <li>Food Swamps</li> <li>Chronic Disease Outcomes Related to Poor Eating</li> <li>Diabetes, HTD, HTN, Stroke, Kidney issues, Cancer</li> <li>Access to Parks</li> <li>Places to be Active</li> </ul> |
| PHN4                     | Safe and<br>Violence-<br>Free<br>Environment  | <ul> <li>Poor Mental Health Days</li> <li>Homicide Rate</li> <li>Motor Vehicle Crash Death Rate</li> <li>Violent Crime Rate</li> <li>Social Associations</li> </ul>   | <ul> <li>Crime Rates</li> <li>Violence in The Community</li> <li>Feeling Unsafe in The Community</li> <li>Substance Abuse-Alcohol and Drugs</li> <li>Access to Safe Parks</li> <li>Pedestrian Safety</li> <li>Safe Streets</li> <li>Safe Places to Be Active</li> </ul>  |
| PHN5                     | Access to Dental Care and Preventive Services | <ul> <li>Dentists</li> <li>Health Professional Shortage Area – Dental</li> </ul>  | <ul> <li>Any Issues Related to Dental<br/>Health</li> <li>Access to Dental Care</li> </ul>   |
| PHN6                     | Pollution-<br>Free Living<br>Environment      | <ul> <li>Cancer Mortality</li> <li>Chronic Lower Respiratory Disease<br/>Mortality</li> <li>Breast Cancer Incidence</li> <li>Colorectal Cancer Incidence</li> <li>Lung Cancer Incidence</li> <li>Prostate Cancer Incidence</li> <li>Adult Smoking</li> <li>Air Pollution – Particulate Matter</li> <li>Drinking Water Violations</li> <li>Pollution Burden</li> </ul>   | <ul> <li>Smoking</li> <li>Unhealthy Air, Water, Housing</li> <li>Health Issues: Asthma, COPD,<br/>CLRD, Lung Cancer</li> </ul>   |

| Health<br>Need<br>Number | 2019 CHI<br>Potential<br>Health<br>Needs              | 2019 CHI Secondary Indicators   | Primary Indicators   |
|--------------------------|---|---|--|
| PHN7                     | Access to Basic Needs Such as Housing, Jobs, and Food | <ul> <li>Premature Age-Adjusted Mortality</li> <li>Premature Death (Years of Potential Life Lost)</li> <li>Low Birth Weight</li> <li>Medically Underserved Areas</li> <li>Healthcare Costs</li> <li>High School Graduation</li> <li>Some College (Postsecondary Education)</li> <li>Unemployment</li> <li>Children in Single-Parent Household</li> <li>Social Associations</li> <li>Children Eligible for Free or Reduced Lunch</li> <li>Children in Poverty</li> <li>Median Household Income</li> <li>Uninsured</li> <li>Severe Housing Problems</li> <li>Households with No Vehicle</li> <li>mRFEI</li> <li>Limited Access to Healthy Food</li> </ul> | <ul> <li>Employment and Unemployment</li> <li>Poverty</li> <li>Housing Issues</li> <li>Homelessness</li> <li>Education Access</li> <li>Community Quality of Life</li> <li>Housing Availability</li> <li>Housing Affordability</li> </ul> |
| PHN8                     | Access and<br>Functional<br>Needs                     | <ul> <li>Access to Public Transportation</li> <li>Households with no Vehicle</li> <li>Percentage of Population with a<br/>Disability</li> </ul>   | <ul> <li>Physical Access Issues</li> <li>Cost of Transportation</li> <li>Ease of Transportation Access</li> <li>No Car</li> <li>Disability</li> </ul>  |
| PHN9                     | Access to<br>Specialty and<br>Extended<br>Care        | <ul> <li>Alzheimer's Mortality</li> <li>Cancer Mortality</li> <li>Chronic Lower Respiratory Disease Mortality</li> <li>Diabetes Mortality</li> <li>Heart Disease Mortality</li> <li>Hypertension Mortality</li> <li>Kidney Disease Mortality</li> <li>Liver Disease Mortality</li> <li>Stroke Mortality</li> <li>Diabetes Prevalence</li> <li>Lung Cancer Incidence</li> <li>Psychiatrists</li> <li>Specialty Care Providers</li> <li>Preventable Hospital Stays</li> </ul>   | <ul> <li>Seeing a Specialist for Health<br/>Conditions</li> <li>Diabetes-Related Specialty Care</li> <li>Specialty Care for HTD, HTN,<br/>Stroke, Kidney Diseases</li> </ul>   |

| Health<br>Need<br>Number | 2019 CHI<br>Potential<br>Health<br>Needs     | 2019 CHI Secondary Indicators   | Primary Indicators  |
|--------------------------|--|---|---|
| PHN10                    | Injury and Disease Prevention and Management | <ul> <li>Alzheimer's Mortality</li> <li>Chronic Lower Respiratory Disease Mortality</li> <li>Diabetes Mortality</li> <li>Heart Disease Mortality</li> <li>Hypertension Mortality</li> <li>Influenza and Pneumonia Mortality</li> <li>Kidney Disease Mortality</li> <li>Liver Disease Mortality</li> <li>Stroke Mortality</li> <li>Suicide Mortality</li> <li>Unintentional Injury Mortality</li> <li>Diabetes Prevalence</li> <li>HIV Prevalence Rate</li> <li>Low Birth Weight</li> <li>Drug Overdose Deaths</li> <li>Excessive Drinking</li> <li>Adult Obesity</li> <li>Physical Inactivity</li> <li>Sexually Transmitted Infections</li> <li>Teen Birth Rate</li> <li>Adult Smoking</li> <li>Motor Vehicle Crash Death Rate</li> </ul> | <ul> <li>Anything Related to Helping<br/>Prevent a Preventable Disease<br/>or Injury</li> <li>Unintentional Injury</li> <li>Smoking and Alcohol/Drug<br/>Abuse</li> <li>Teen Pregnancy</li> <li>HIV/STD</li> <li>TB</li> <li>Influenza and Pneumonia</li> <li>Health Classes</li> <li>Health Promotion Teams and<br/>Interventions</li> <li>Need for Health Literacy</li> </ul> |

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 21 lists each secondary indicator and describes the comparison made to the benchmark to determine if it was problematic.

Table 21: Benchmark Comparisons to Show Indicator Performance

| Indicator                        | Benchmark Comparison<br>Indicating Poor Performance |
|----------------------------------|---|
| Infant Mortality                 | Higher  |
| Child Mortality                  | Higher  |
| Life Expectancy                  | Lower   |
| Age-Adjusted Mortality           | Higher  |
| Premature Age-Adjusted Mortality | Higher  |
| Years of Potential Life Lost     | Higher  |
| Stroke Mortality                 | Higher  |

| Indicator                         | Benchmark Comparison Indicating Poor Performance |
|-----------------------------------|--|
| CLD 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 Injury Mortality    | Higher   |
| Alzheimer's Mortality             | Higher   |
| Influenza and Pneumonia Mortality | Higher   |
| Diabetes Prevalence               | Higher   |
| Low Birth Weight                  | Higher   |
| HIV Prevalence                    | Higher   |
| Percentage with Disability        | Higher   |
| Poor Mental Health Days           | Higher   |
| Poor Physical Health Days         | Higher   |
| Cancer Female Breast              | Higher   |
| Cancer Colon and Rectum           | Higher   |
| Cancer Lung and Bronchus          | Higher   |
| Cancer Prostate                   | Higher   |
| Excessive Drinking                | Higher   |
| Drug Overdose Deaths              | Higher   |
| Adult Obesity                     | Higher   |
| Physical Inactivity               | Higher   |
| Limited Access to Healthy Food    | Higher   |
| mRFEI                             | Lower  |
| Access to Exercise                | Lower  |
| STI Chlamydia Rate                | Higher   |
| Teen Birth Rate                   | Higher   |
| Adult Smokers                     | Higher   |
| Health Care Costs                 | Higher   |
| HPSA Dental Health                | Present  |
| HPSA Mental Health                | Present  |
| HPSA Primary Care                 | Present  |
| HPSA Medically Underserved Area   | Present  |
| Mammography Screening             | Lower  |
| Dentists                          | Lower  |
| Mental Health Providers           | Lower  |
| Psychiatry Providers              | Lower  |

| Indicator                     | Benchmark Comparison Indicating Poor Performance |
|-------------------------------|--|
| Specialty Care Providers      | Lower  |
| Primary Care Physicians       | Lower  |
| Preventable Hospital Stays    | Higher   |
| Homicides                     | Higher   |
| Violent Crimes                | Higher   |
| Motor Vehicle Crash Deaths    | Higher   |
| Some College                  | Lower  |
| High School Graduation        | Lower  |
| Unemployed                    | Higher   |
| Children with Single Parents  | Higher   |
| Social Associations           | Lower  |
| Free and Reduced Lunch        | Higher   |
| Children in Poverty           | Higher   |
| Median Household Income       | Lower  |
| Uninsured                     | Higher   |
| Severe Housing Problems       | Higher   |
| Housing Units With No Vehicle | Higher   |
| Public Transit Proximity      | Lower  |
| Pollution Burden              | Higher   |
| Air Particulate Matter        | Higher   |
| Drinking Water Violations     | Present  |

Once these poorly performing quantitative indicators were identified, they were used to identify preliminary secondary significant health needs. This was done by calculating the percentage of all secondary indicators associated with a given PHN that were identified as performing poorly within the HSA. While all PHNs represented actual health needs within the HSA to a greater or lesser extent, a PHN was considered a preliminary secondary health need if the percentage of poorly performing indicators exceeded one of a number of established thresholds: any poorly performing associated secondary indicators; or at least 20%, 25%, 33%, 40%, 50%, 66%, 75%, or 80% of the associated indicators were found to perform poorly. These thresholds were chosen because they correspond to divisions of the indicators into fifths, quarters, thirds, or halves. 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 20%, 25%, 33%, 40%, 50%, 60%, 66%, 75%, or 80% of the respondents mentioned an associated theme.

These sets of criteria (any mention, 20%, 25%, 33%, 40%, 50%, 60%, 66%, 75%, or 80%) were used because we could not anticipate which specific standard would be most meaningful within the context of the HSA. Having multiple objective decision criteria allows the process to be more easily described but still allows for enough flexibility to respond to evolving conditions in the HSA. To this end, a final round of expert reviews was used to compare the set selection criteria to find the level at which the criteria converged towards a final set of SHNs. Once the final criteria used to identify the SHN were

selected for the primary and secondary analyses, any PHN included in either preliminary health need list was included as a final significant health need for the county.

For this report, A PHN was selected as a significant health need if 50% of the associated quantitative indicators were identified as performing poorly or the need was identified by 50% or more of the primary sources as performing poorly.

#### **Health Need Prioritization**

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

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

These two measures were next 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 22: Detailed List of Resources Potentially Available to Address Significant Health Needs Identified in the CHNA

| Organization Information  |  |  | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |
|---|--|--|---|--|--|---|-----------------------------------|--|--|
| Name  | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website  | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |
| A Community for<br>Peace  | 95610  | https://acommu<br>nityforpeace.org   | Х   |  |  | Х   |                                   |  |  |
| African American Perinatal Health – Sacramento County Public Health | Sacramento<br>County                           | www.scph.com   |   |  |  |   |                                   | Х  |  |
| Agency on Aging-<br>Area 4  | 95815  | https://agencyo<br>naging4.org/  | Х   | Х  |  | Х   |                                   | Х  | Х  |
| Alta California<br>Regional Center                                  | 95678  | https://www.alt<br>aregional.org/po<br>st/roseville-1  | Х   |  | Х                                      | Х   |                                   |  |  |
| American Red<br>Cross   | 95815  | https://www.red<br>cross.org/local/c<br>alifornia/gold-<br>country/about-<br>us/locations.htm<br>l |   | X  |  | X   |                                   |  | X  |
| Asian Resources Inc.  | 95610  | https://asianres<br>ources.org/  |   |  |  | Х   |                                   |  |  |
| Asian Resources,<br>Inc.  | 95610  | www.asianresou<br>rces.org   |   |  |  | Х   |                                   |  |  |

| Orga  | nization Informa                               | ation  |   |  | Significant                            | Health Need Pote  | entially Met                      |  |  |
|---|--|--|---|--|--|---|-----------------------------------|--|--|
| Name  | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website  | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and<br>Disease<br>Prevention<br>and<br>Management |
| Birth and Beyond<br>Home Visitation –<br>WellSpace Health                 | 95660  | www.wellspaceh ealth.org/locatio n/north- highlands- community- health-center- birth-and- beyond | X   | X  |  | X   |                                   |  |  |
| Birth and Beyond<br>Home Visitation<br>Program-<br>WellSpace Health       | 95661  | https://www.we<br>llspacehealth.or<br>g/services/birth-<br>beyond-family-<br>resource-center     | Х   | Х  |  |   |                                   | Х  | Х  |
| Black Infant<br>Health Program –<br>Sacramento<br>County Public<br>Health | Sacramento<br>County                           | www.scph.com   |   |  |  |   |                                   |  | Х  |
| Brookdale Senior<br>Living  | 95661,<br>95621                                | https://www.br<br>ookdale.com/en.<br>html  |   | Х  | Х                                      |   |                                   | Х  |  |
| California Children's Services – Sacramento County Public Health          | Sacramento<br>County                           | www.scph.com   |   |  |  |   |                                   | Х  | Х  |

| Orga   | nization Informa                               | ation                            | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |  |
|--|--|----------------------------------|---|--|--|---|-----------------------------------|--|--|--|
| Name   | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website                          | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and<br>Disease<br>Prevention<br>and<br>Management |  |
| Camp ReCreation  | 95662  | www.camprecre<br>ation.org       |   |  | Х                                      |   |                                   |  |  |  |
| Center Joint<br>Unified School<br>District                             | 95843  | www.centerusd.<br>org            | Х   |  | Х                                      | Х   |                                   |  |  |  |
| Chest Clinic/Tuberculosi s Control – Sacramento County Public Health   | Sacramento<br>County                           | www.scph.com                     |   |  |  |   |                                   | х  | Х  |  |
| Child Abuse<br>Prevention<br>Center                                    | 95660  | http://www.thec<br>apcenter.org/ |   |  |  |   |                                   |  | Х  |  |
| Child Abuse<br>Prevention<br>Center                                    | 95660  | www.thecapcen<br>ter.org         |   |  |  |   |                                   |  |  |  |
| Child Health & Disability Prevention – Sacramento County Public Health | Sacramento<br>County                           | www.scph.com                     |   | X  |  |   |                                   |  |  |  |
| Citrus Heights Homeless Assistance Resource Team (HART)                | 95610  | www.citrusheigh<br>tshart.org    |   |  |  | Х   |                                   |  |  |  |
| Community<br>Recovery<br>Resources (CoRR)                              | 95661  | https://www.cor<br>r.us/         | Х   |  |  |   |                                   |  |  |  |

| Orga   | nization Informa                               | ation   |   |  | Significant                            | Health Need Pote  | entially Met                      |  |  |
|--|--|---|---|--|--|---|-----------------------------------|--|--|
| Name   | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website   | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |
| Comprehensive Perinatal Services Program – Sacramento County Public Health     | Sacramento<br>County                           | www.scph.com  | Х   |  | Х                                      |   |                                   | Х  | Х  |
| Cycles 4 Hope  | 95678  | http://www.cycl<br>es4hope.org/                         |   |  | Х                                      | Х   | Х                                 |  |  |
| Del Oro Caregiver<br>Resource Center   | 95610  | http://www.delo   | Х   |  |  |   |                                   | Х  | Х  |
| Del Oro Caregiver<br>Resource Center   | 95610  | www.deloro.org  | Х   |  |  |   |                                   | Х  | Х  |
| Dial-A-Ride<br>(Placer County)   | 95603  | https://www.pla<br>cer.ca.gov/1793/<br>Dial-A-Ride      |   |  |  |   | Х                                 |  |  |
| Dignity Health   | 95608,<br>95630                                | www.dignityheal<br>th.org                               |   | Х  | Х                                      |   |                                   | Х  | Х  |
| Disease Control<br>and Epidemiology<br>– Sacramento<br>County Public<br>Health | Sacramento<br>County                           | www.scph.com  |   |  |  |   |                                   |  | Х  |
| Effie Yeaw Nature<br>Center  | 95608  | www.sacnaturec<br>enter.net                             |   |  | Х                                      |   |                                   |  |  |
| Elverta Joint<br>School District   | 95626  | www.ejesd.net   |   |  | Х                                      |   |                                   |  |  |
| Eskaton  | 95608  | https://www.esk<br>aton.org/village-<br>carmichael.html | Х   | Х  | Х                                      | Х   |                                   | Х  |  |
| Eskaton  | 95608  | www.eskaton.or  | Х   | Х  |  | Х   |                                   |  |  |

| Orga   | nization Informa                               | ation                              | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |
|--|--|------------------------------------|---|--|--|---|-----------------------------------|--|--|
| Name   | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website                            | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |
| Every Smile Counts! – Sacramento County Public Health                  | Sacramento<br>County                           | www.scph.com                       |   |  |  |   |                                   |  | Х  |
| Excel Roseville  | 95678  | https://excelros<br>eville.net/    |   |  |  | Х   |                                   |  |  |
| First 5 Placer   | 95603  | https://www.firs<br>t5placer.org/  | Х   | Х  | Х                                      | Х   |                                   |  | Х  |
| Foster-CPS Nursing & HEARTS for Kids – Sacramento County Public Health | Sacramento<br>County                           | www.scph.com                       |   | Х  |  |   |                                   |  | Х  |
| HIV/STD<br>Prevention<br>Program                                       | 95660  | www.scph.com                       |   | Х  |  |   |                                   | Х  | Х  |
| HIV/STD Surveillance – Sacramento County Public Health                 | Sacramento<br>County                           | www.scph.com                       |   |  |  |   |                                   |  | Х  |
| Home Start   | 95678  | http://rosevilleh<br>omestart.org/ | Х   |  |  | Х   |                                   |  |  |
| Immunization Assistance Program – Sacramento County Public Health      | Sacramento<br>County                           | www.scph.com                       |   |  |  |   |                                   |  | Х  |

| Orga  | nization Informa                               | ation   | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |  |
|---|--|---|---|--|--|---|-----------------------------------|--|--|--|
| Name  | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website   | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |  |
| Interim<br>HealthCare   | 95610  | https://www.int<br>erimhealthcare.c<br>om/  | Х   | Х  |  | Х   |                                   | Х  |  |  |
| Kaiser<br>Permanente<br>Roseville Medical<br>Center                 | 95661  | https://healthy.k aiserpermanent e.org/northern- california/faciliti es/Kaiser- Permanente- Roseville- Medical-Center- 100331 | Х   | Х  | X                                      |   |                                   | Х  | Х  |  |
| Keaton's Child<br>Cancer Alliance                                   | 95661  | https://childcanc<br>er.org/  | Х   |  |  |   |                                   |  | Х  |  |
| KidsFirst   | 95603  | http://kidsfirstn<br>ow.org/  | Х   |  | Х                                      | Х   |                                   |  | Х  |  |
| Latino Leadership<br>Council  | 95678,<br>95648                                | http://latinolead<br>ershipcouncil.or<br>g/   |   | Х  |  | Х   |                                   |  |  |  |
| Lead Poisoning Prevention Program – Sacramento County Public Health | Sacramento<br>County                           | www.scph.com  |   |  |  |   |                                   |  | Х  |  |
| Legal Services of<br>Northern<br>California-Health<br>Rights        | 95603  | https://lsnc.net/   |   |  |  | Х   |                                   |  |  |  |
| Life Matters  | 95842  | https://wherelif<br>ematters.com/a<br>bout us   |   |  |  | Х   |                                   |  |  |  |

| Orga  | nization Informa                               | ation  |   |  | Significant                            | Health Need Pote  | ntially Met                       |  |  |
|---|--|--|---|--|--|---|-----------------------------------|--|--|
| Name  | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website  | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |
| Life Matters  | 95842  | www.wherelife<br>matters.com   |   |  |  | Х   |                                   |  |  |
| Lighthouse<br>Counseling &<br>Family Resource<br>Center | 95648  | https://lighthous<br>efrc.org/   | Х   |  | Х                                      | Х   |                                   |  |  |
| Lilliput Children's<br>Services                         | 95610  | www.lilliput.org   |   |  |  | Х   |                                   |  |  |
| Lilliput Children's<br>Services                         | 95610  | https://www.lilli<br>put.org/  |   |  |  | Х   |                                   |  |  |
| MAK- Meningitis<br>Awareness Key to<br>Prevention       | 95608  | www.makinfo.or   |   |  |  |   |                                   |  | Х  |
| Mercy Hospital of<br>Folsom                             | 95630  | https://www.dig<br>nityhealth.org/s<br>acramento/locat<br>ions/mercy-<br>hospital-of-<br>folsom      | Х   | Х  | Х                                      |   |                                   | Х  | Х  |
| Mercy San Juan<br>Hospital                              | 95608  | https://www.dig<br>nityhealth.org/s<br>acramento/locat<br>ions/mercy-san-<br>juan-medical-<br>center | Х   | Х  | Х                                      |   |                                   | Х  | Х  |
| Mercy San Juan<br>Medical Center<br>(Dignity Health)    | 95608  | www.dignityheal<br>th.org/sacramen<br>to/locations/mer<br>cy-san-juan-<br>medical-center             | Х   | Х  | Х                                      |   |                                   | Х  | Х  |

| Orgai   | nization Informa                               | ation   |   |  | Significant                            | Health Need Pote  | entially Met                      |  |  |
|---|--|---|---|--|--|---|-----------------------------------|--|--|
| Name  | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website   | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |
| Neil Orchard<br>Senior Activities<br>Center                                   | 95827  | https://crpd.co<br>m/parks/neil-<br>orchard-senior-<br>activities-center/ |   |  | Х                                      |   |                                   |  |  |
| New Testament<br>Baptist Church   | 95660  | http://www.new<br>testamentbaptc<br>hurch.org/                            |   |  |  | Х   |                                   |  |  |
| New Testament<br>Baptist Church   | 95660  | www.newtesta<br>mentbaptchurch<br>.org                                    |   |  | Х                                      | Х   |                                   |  |  |
| Nurse Family Partnership – Sacramento County Public Health                    | Sacramento<br>County                           | www.scph.com  |   |  |  |   |                                   | Х  | X  |
| Obesity Prevention Program – Sacramento County Public Health                  | Sacramento<br>County                           | www.scph.com  |   |  | X                                      |   |                                   |  | Х  |
| Oral Health Program – Sacramento County Public Health                         | Sacramento<br>County                           | www.scph.com  |   |  |  |   |                                   |  | Х  |
| Orangevale Food<br>Bank   | 95662  | www.orangevale<br>foodbank.org  |   |  | Х                                      | Х   |                                   |  |  |
| Pacific Counseling<br>and Trauma<br>Center (Pacific<br>Trauma<br>Specialists) | 95630  | www.pacifictrau<br>macenter.com   | Х   |  |  |   |                                   |  |  |

| Orga   | nization Informa                               | ation   |   |  | Significant                            | Health Need Pote  | entially Met                      |  |  |
|--|--|---|---|--|--|---|-----------------------------------|--|--|
| Name   | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website   | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and<br>Disease<br>Prevention<br>and<br>Management |
| Parent Project<br>(Placer County)              | 95661  | http://placer.net<br>workofcare.org/<br>mh/services/age<br>ncy.aspx?pid=Th<br>eParentProject<br>175 2 0 | Х   |  |  | Х   |                                   |  |  |
| Placer County<br>Adult System of<br>Care       | 95678  | https://www.pla<br>cer.ca.gov/2158/<br>Adult-System-of-<br>Care   | Х   | Х  |  | Х   |                                   |  |  |
| Placer County<br>CalFresh                      | 95765  | https://www.pla<br>cer.ca.gov/2096/<br>Human-Services   |   |  |  | Х   |                                   |  |  |
| Placer County<br>Children's System<br>of Care  | 95765  | https://www.pla<br>cer.ca.gov/2050/<br>Childrens-<br>System-of-Care                                     | Х   |  |  | Х   |                                   |  |  |
| Placer County<br>Human Services                | 95765  | https://www.pla<br>cer.ca.gov/2096/<br>Human-Services   |   |  |  | Х   |                                   |  |  |
| Placer County<br>Mental Health<br>Services     | 95678  | https://www.pla<br>cer.ca.gov/2166/<br>Mental-Health-<br>Services                                       | Х   |  |  | Х   |                                   |  |  |
| Placer County<br>Office of<br>Education (PCOE) | 95603  | https://www.pla<br>cercoe.k12.ca.us<br>/Pages/default.a<br>spx  |   |  |  | Х   |                                   |  |  |
| Placer County<br>Public Health<br>Department   | 95603  | https://www.pla<br>cer.ca.gov/2863/<br>Public-Health  | Х   | Х  |  |   |                                   |  | Х  |

| Orgai  | nization Informa                               | ation   |   |  | Significant                            | Health Need Pote  | entially Met                      |  |  |
|--|--|---|---|--|--|---|-----------------------------------|--|--|
| Name   | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website   | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and<br>Disease<br>Prevention<br>and<br>Management |
| Placer County<br>Public Health<br>Nursing                  | 95603  | https://www.pla<br>cer.ca.gov/2912/<br>Public-Health-<br>Nursing  |   | Х  | Х                                      | Х   |                                   |  | Х  |
| Placer County<br>Sexual Assault<br>Response Team<br>(SART) | 95661  | https://www.sta<br>ndupplacer.org/<br>get-<br>help/emergency<br>-<br>services/respons<br>e-teams/                                   |   | X  |  |   |                                   |  |  |
| Placer County<br>Veterans Services                         | 95765  | http://placer.net<br>workofcare.org/<br>veterans/service<br>s/agency.aspx?pi<br>d=VeteransServi<br>ceOfficePlacerCo<br>unty 175 2 0 | X   |  |  | X   |                                   |  |  |
| Placer County<br>WIC                                       | 95765  | https://www.pla<br>cer.ca.gov/2918/<br>Women-Infants-<br>Children-WIC   |   | Х  | Х                                      | Х   |                                   |  | Х  |
| Placer Food Bank   | 95678  | http://placerfoo<br>dbank.org/  |   |  | Х                                      | Х   |                                   |  |  |
| Placer<br>Independent<br>Resource Services<br>(PIRS)       | 95603  | http://www.pirs.<br>org/  |   |  | Х                                      | Х   |                                   |  |  |
| Placer People of<br>Faith Together                         | 95650  | http://www.ppo<br>ft.org/   |   |  |  | Х   |                                   |  |  |

| Orga  | nization Informa                               | ation  | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |  |  |
|---|--|--|---|--|--|---|-----------------------------------|--|--|--|--|
| Name  | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website  | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and<br>Disease<br>Prevention<br>and<br>Management |  |  |
| Planned<br>Parenthood<br>North Highlands<br>Health Center | 95660  | https://www.pla<br>nnedparenthood<br>.org/health-<br>center/california<br>/north-<br>highlands/95660<br>/north-<br>highlands-<br>health-center-<br>2201-<br>90130?utm cam<br>paign=north-<br>highlands-<br>health-<br>center&utm me<br>dium=organic&u<br>tm source=local |   | X  |  |   |                                   |  | X  |  |  |
| Planned<br>Parenthood<br>North Highlands<br>Health Center | 95660  | -listing www.plannedpa renthood.org  |   | Х  |  |   |                                   | Х  | Х  |  |  |

| Orga   | nization Informa                               | ation  | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |  |
|--|--|--|---|--|--|---|-----------------------------------|--|--|--|
| Name   | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website  | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |  |
| Planned<br>Parenthood<br>Roseville Health<br>Center                    | 95661  | https://www.pla<br>nnedparenthood<br>.org/health-<br>center/california<br>/roseville/95661<br>/roseville-<br>health-center-<br>2197-<br>90130?utm_cam<br>paign=roseville-<br>health-<br>center&utm_me<br>dium=organic&u<br>tm_source=local<br>-listing |   | X  |  |   |                                   |  | Х  |  |
| Powerhouse<br>Ministries -<br>Transformation<br>Center                 | 95630  | https://phmfols<br>om.org/program<br>s/powerhouse-<br>transformation-<br>center/   | х   |  |  | х   |                                   |  |  |  |
| PRIDE Industries   | 95660,<br>95747                                | https://prideind<br>ustries.com/   |   |  |  | Х   |                                   |  |  |  |
| PRIDE Industries   | 95660  | www.prideindus<br>tries.com  |   |  |  | Х   |                                   |  |  |  |
| PRO Youth & Families   | 95841  | http://proyouth<br>andfamilies.org/  | Х   |  |  |   |                                   |  | Х  |  |
| Public Health Emergency Preparedness – Sacramento County Public Health | Sacramento<br>County                           | www.scph.com   |   |  |  |   |                                   |  | Х  |  |

| Orgai  | nization Informa                               | ation                                    | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |  |
|--|--|--|---|--|--|---|-----------------------------------|--|--|--|
| Name   | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website                                  | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |  |
| Public Health Laboratory – Sacramento County Public Health               | Sacramento<br>County                           | www.scph.com                             |   |  |  |   |                                   |  | Х  |  |
| Recreate for<br>Health (American<br>River Park<br>Foundation<br>program) | 95608  | www.arpf.com                             |   |  | Х                                      |   |                                   |  |  |  |
| Roseville Adult<br>School  | 95678  | https://www.rju<br>hsd.us/Domain/<br>140 |   |  |  | Х   |                                   |  |  |  |
| Ryan White HIV Care & Treatment – Sacramento County Public Health        | Sacramento<br>County                           | www.scph.com                             | Х   | Х  |  |   |                                   | Х  | Х  |  |
| Sacramento<br>County Dental<br>Health Program                            | Sacramento<br>County                           | www.dhhs.sacco<br>unty.net               |   |  |  |   |                                   |  |  |  |
| Sacramento County Department of Health and Human Services                | Sacramento<br>County                           | www.dhhs.sacco<br>unty.net               | Х   | Х  | Х                                      |   |                                   |  | Х  |  |
| Sacramento County Department of Human Assistance                         | Sacramento<br>County                           | www.dha.saccou<br>nty.net                |   |  |  | Х   |                                   |  |  |  |

| Organization Information                    |  |  | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |
|---|--|--|---|--|--|---|-----------------------------------|--|--|
| Name  | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website  | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |
| Sacramento<br>Works Job Center              | 95610  | http://www.sacr<br>amentoworks.or<br>g/  |   |  |  | Х   |                                   |  |  |
| Sacramento<br>Works Job<br>Centers          | 95842,<br>95610                                | www.sacrament<br>oworks.org  |   |  |  | Х   |                                   |  |  |
| San Juan Unified<br>School District         | 95608  | www.sanjuan.ed<br>u  | Х   |  | Х                                      | Х   |                                   |  |  |
| Seniors First                               | 95602  | https://seniorsfir<br>st.org/  | Х   |  |  | Х   | Х                                 |  |  |
| SETA Head Start                             | 95608,<br>95610                                | http://headstart.<br>seta.net/   | Х   |  | Х                                      | Х   |                                   |  |  |
| Sierra Foothills<br>Outpatient Clinic       | 95603  | https://www.ren<br>o.va.gov/locatio<br>ns/Sierra Foothi<br>lls Outpatient C<br>linic.asp | Х   | х  |  |   |                                   |  |  |
| Sierra Forever<br>Families-Placer<br>Kids   | 95603  | https://sierraff.o<br>rg/contact-<br>us/auburn/  |   |  |  | Х   |                                   |  |  |
| Sierra Health<br>Foundation                 | 95833  | https://www.sie<br>rrahealth.org/ab<br>out-us  | Х   | Х  | Х                                      |   |                                   |  | Х  |
| Sierra Mental<br>Wellness Group             | 95661  | http://www.sier<br>ramentalwellnes<br>s.org/   | Х   |  |  |   |                                   |  |  |
| Smile Keepers –<br>Dental Health<br>Program | Sacramento<br>County                           | www.dhs.saccou<br>nty.net/PUB/Pag<br>es/Dental-<br>Health-<br>Program.aspx               |   |  |  |   |                                   |  |  |

| Organization Information   |  |  | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |  |
|--|--|--|---|--|--|---|-----------------------------------|--|--|--|
| Name   | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website                                      | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and<br>Disease<br>Prevention<br>and<br>Management |  |
| St. Vincent DePaul Society of Roseville                                  | 95678  | https://www.pla<br>cersvdp.com/              |   | Х  |  | Х   |                                   |  |  |  |
| Stand Up Placer  | 95661  | https://www.sta<br>ndupplacer.org/           | Х   |  |  | Х   |                                   |  |  |  |
| Stop Stigma Sacramento Speakers Bureau – Sacramento County Public Health | Sacramento<br>County                           | www.scph.com                                 |   |  |  |   |                                   |  | Х  |  |
| Sunrise<br>Marketplace   | 95610  | www.sunrisemar<br>ketplace.com               |   |  | Х                                      |   |                                   |  |  |  |
| Sutter Roseville<br>Medical Center                                       | 95661  | https://www.sut<br>terhealth.org/sr<br>mc    | Х   | Х  |  |   |                                   |  | Х  |  |
| Terra Nova<br>Counseling   | 95628  | https://www.ter<br>ranovacounselin<br>g.org/ | Х   |  |  |   |                                   |  |  |  |
| Terra Nova<br>Counseling   | 95628  | www.terranovac<br>ounseling.org              | Х   |  |  |   |                                   |  |  |  |
| The Gathering Inn  | 95678  | http://www.the<br>gatheringinn.co<br>m/      | Х   | Х  |  | Х   |                                   |  |  |  |
| The Salt Mine  | 95648  | https://thesaltm<br>ine.org/                 |   |  |  | Х   |                                   |  |  |  |
| The Salvation<br>Army Roseville<br>Corps                                 | 95678  | https://roseville.<br>salvationarmy.or<br>g/ | Х   | Х  |  | Х   |                                   |  |  |  |

| Organization Information                                    |  |   | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |
|---|--|---|---|--|--|---|-----------------------------------|--|--|
| Name  | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website   | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |
| Tobacco Education Program – Sacramento County Public Health | Sacramento<br>County                           | www.scph.com  |   |  |  |   |                                   |  | Х  |
| Twin Lakes Food<br>Bank                                     | 95630  | www.twinlakesf<br>oodbank.sustaini<br>nggood.com      |   |  |  | Х   |                                   |  |  |
| Twin Rivers<br>Unified School<br>District                   | 95660  | www.twinrivers<br>usd.org                             | Х   |  | Х                                      | Х   |                                   |  |  |
| U.S Department<br>of Veterans<br>Affairs- Vet<br>Center     | 95610  | https://www.vet<br>center.va.gov/                     | Х   |  |  | Х   |                                   |  |  |
| Vital Records –<br>Sacramento<br>County Public<br>Health    | Sacramento<br>County                           | www.scph.com  |   |  |  |   |                                   |  | Х  |
| WarmLine Family<br>Resource Center                          | 95818  | http://www.war<br>mlinefrc.org/                       | Х   | Х  |  | Х   |                                   |  |  |
| Welcome Center - Placer County                              | 95603  | https://www.pla<br>cer.ca.gov/2411/<br>Welcome-Center | Х   |  | Х                                      | Х   |                                   |  |  |
| Wellness and<br>Recovery Center<br>– Consumers Self<br>Help | 95608  | www.consumers<br>selfhelp.org/wrc<br>-north           | Х   |  |  |   |                                   |  |  |
| Wellness and<br>Recovery Center-<br>Consumer Self<br>Help   | 95608  | https://www.co<br>nsumersselfhelp.<br>org/wrc-north   | Х   |  |  |   |                                   |  |  |

| Organization Information                   |  |  | Significant Health Need Potentially Met                               |  |  |   |                                   |  |  |  |
|--|--|--|---|--|--|---|-----------------------------------|--|--|--|
| Name                                       | Location of<br>Organiz-<br>ation (Zip<br>Code) | Website  | Access to<br>Mental/<br>Behavioral/<br>Substance<br>Abuse<br>Services | Access to<br>Quality<br>Primary Care<br>Health<br>Services | Active Living<br>and Healthy<br>Eating | Access to<br>Basic Needs<br>Such as<br>Housing, Jobs,<br>and Food | Access and<br>Functional<br>Needs | Access to<br>Specialty and<br>Extended<br>Care | Injury and Disease Prevention and Management |  |
| WellSpace Health                           | 95630,<br>95660,<br>95621,<br>95661            | https://www.we<br>llspacehealth.or<br>g/                         | Х   | Х  |  |   |                                   |  | Х  |  |
| WellSpace Health                           | 95621,<br>95630,<br>95660                      | www.wellspaceh<br>ealth.org                                      | Х   | Х  |  |   |                                   | Х  | Х  |  |
| What Would<br>Jesus Do, Inc.               | 95678  | http://www.wwj<br>dinc.org/                                      |   |  |  | Х   |                                   |  |  |  |
| Whole Person<br>Care - County of<br>Placer | 95603  | https://www.pla<br>cer.ca.gov/2972/<br>Whole-Person-<br>Care-WPC | Х   | Х  |  | Х   |                                   |  |  |  |
| Zafia's Family<br>House                    | 95678  | http://www.zafi<br>asfamilyhouse.o<br>rg/home.aspx               |   |  |  | Х   |                                   |  |  |  |

# **Limits and Information Gaps**

Study limitations included challenges obtaining secondary quantitative data and assuring community representation via primary qualitative data collection. For example, most of the 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.

As always with primary data collection, gaining access to participants that best represent the populations needed for this assessment is a challenge. Additionally, data collection of health resources in the service area was challenging. Although an effort was made to verify all resources (assets) collected in the 2016 CHNA through a web search, we recognize that ultimately some resources may not be listed that exist in the service area.