# Chronic Conditions of Californiams 

Findings from the 2003
California Health Interview Survey

Mona Jhawar, MPH
Steven P. Wallace, PhD

December 2005

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Funded by a grant from
$\underset{\text { CaliforniA }}{\text { Health Care }}$ The California HealthCare Foundation Foundation


UCLA Center for Health Policy Research
10911 Weyburn Avenue, Suite 300
Los Angeles, CA 90024
wwrw.healthpolicy.ucla.edu

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The views expressed in this report are those of the authors and do not necessarily represent the UCLA Center for Health Policy Research, the Regents of the University of California, or The California Health Care Foundation.

Citation: M Jhawar, SP Wallace. Chronic Conditions of Californians: Findings from the 2003 California Health Interview Survey. Los Angeles, CA: UCLA Center for Health Policy Research, 2005.

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California Health Care Foundation

The California HealthCare Foundation (CHCF) funded the research and development of this report. The CHCF is an independent philanthropy committed to improving California's healthcare delivery and financing systems based in Oakland. Formed in 1996, the goal of CHCF is to ensure that all Californians have access to affordable, quality health care. For more information about the CHCF, visit www.chcf.org.
california health interview survey

The California Health Interview Survey (CHIS) is a collaboration of the UCLA Center for Health Policy Research, the California Department of Health Services, and the Public Health Institute. Funding for CHIS comes from state and federal agencies and from several private foundations. For more information on CHIS, visit www.chis.ucla.edu

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## Introduction

CAhronic diseases account for over 1.7 million deaths in the United States and three quarters of our nation's health care costs each year. ${ }^{1}$ Chronic diseases, including cardiovascular disease (primarily heart disease and stroke), cancer and diabetes, are the leading causes of death in California and have become among the most common, costly and often preventable of all health problems. ${ }^{2}$ Chronic diseases are prolonged or permanent health conditions present for at least three months, often requiring ongoing medical management. ${ }^{3}$ The widespread prevalence of chronic disease places a heavy burden on our health care system.

Health service utilization, including emergency room use, hospitalization and doctor visits shows the substantial impact of adults with chronic conditions on our health care system. Data available from the 2001 California Health Interview Survey (CHIS) show that $20.7 \%$ of adults with asthma visited the emergency room in the previous year compared to $13.6 \%$ of adults without asthma. ${ }^{4}$ Among adults with diabetes in 2001, 19.2\% stayed in a hospital overnight in the prior year compared to $7.9 \%$ of adults without diabetes. ${ }^{5}$ In 2003, $38.9 \%$ of adults over 18 reporting fair or poor health status visited the doctor six or more times compared to $14.6 \%$ of adults in better health. ${ }^{6}$ Although individuals with chronic conditions often require medical treatment for problems associated with chronic conditions, regular medical monitoring and care can prevent complications that are costly to both the patient and California's health care system. Maintaining a well organized and

[^0]accessible health service system can therefore reduce the overall health care costs and the poor health outcomes associated with chronic conditions.

Chronic Conditions of Californians examines ambulatory sensitive conditions that respond well to medical treatment and management, including heart disease, hypertension, diabetes and asthma. Appropriate medical management of these conditions often prevents or postpones debilitating consequences. For example, without intervention, heart disease can progress to congestive heart failure. If uncontrolled, hypertension can lead to kidney failure, heart attacks and strokes. Diabetes can lead to kidney disease, blindness and lower limb amputation when left untreated. Selfreported fair or poor health status is also examined in this report, since it is a good predictor of future poor health outcomes-including mortality-and is highly correlated with chronic conditions.

This report provides information for counties and Los Angeles Service Planning Areas (SPAs) to assist health planners and policymakers identify areas with high rates of chronic conditions, and identify local health systems that may require strengthening in order to adequately meet local needs. The total burden on health systems from chronic disease is indicated by two indices that reflect whether an individual has one or more chronic conditions, one index each for adults and for children (Exhibit 1). Among adults, the chronic conditions index represents the percent of

[^1]adults with heart disease, hypertension, diabetes, fair or poor health status and/or asthma (Map 1). The chronic conditions index among children is the rate of children with asthma and/or fair or poor health status. Each index is divided into five groups or quintiles of similar numbers of counties and Los Angeles SPAs where the highest group number corresponds to the highest prevalence rates of chronic conditions. These indices highlight counties with a high burden of chronic conditions that face the greatest challenges in medical treatment and management.

As access to health care is critical for individuals with chronic conditions that require regular medical treatment and management, this report also presents access indicators describing difficulties that adults can face when seeking health care. One indicator characterizes actual problems experienced when seeking health care (Exhibit 1, Map 2). It reports the percent of one or more problems accessing health services defined as a delay in accessing services in the past year and/or having no usual source of care. A second indicator characterizes resource limitations that are potential barriers when seeking health care (Exhibit 1, Map 3). It reports the percent of one or more barriers to health care access defined as being uninsured anytime in the past year, being limited English proficient, and/or living at 0-199\% of the Federal Poverty Level (FPL). Each indicator is divided into five groups or quintiles of counties and SPAs where a higher group number indicates higher rates of problems accessing health services or higher rates of barriers to health service access.

A composite measure is also presented for counties and Los Angeles SPAs that can be used to determine areas with the heaviest overall burden due to chronic conditions. The Composite of Chronic Conditions and Access Indicators is a seven indicator summary index comprised of the five chronic conditions among adults, the problems accessing health services and the barriers to health care access (Exhibit 2). The final two columns of the composite tally the number of conditions and indicators that fall into the best two and the worst two groups or quintiles. The higher the number of indicators in the best two groups suggests a healthier locale than most counties, and/or fewer problems accessing health services or barriers to health care access. The higher the number of indicators in the worst two groups indicates a higher burden of chronic disease than most counties, and more problems accessing health services and/or barriers to health care access.

Chronic Conditions of Californians also provides prevalence rates and data on selected characteristics of persons with chronic conditions. One characteristic is the racial and ethnic distribution within each chronic condition by region. This is different from presentations of race/ethnicity data that examine the chronic condition rates of particular groups to highlight health disparities between races. It is well documented that communities of color tend to have higher rates of chronic conditions. For example, hypertension is higher among African Americans compared to non-Latino whites. ${ }^{7}$ Latinos, African Americans, and American Indian/Alaska Natives (AIANs) have higher rates of diabetes than non-Latino
whites. ${ }^{8,9,10,11}$ African Americans and American Indian/Alaska Natives have higher lifetime asthma prevalence rates than non-Latino whites. ${ }^{12}$ Health planners and policymakers, however, require an understanding of the racial and ethnic makeup of their target population to appropriately tailor intervention efforts that are distinct and responsive to the demographics of their county. The racial and ethnic distributions presented in this report provide this required understanding of the characteristics of those with chronic conditions within each county and SPA, but does not provide information needed for between county comparisons by race and ethnicity.

This report further characterizes the population with chronic conditions by presenting the characteristics of adults with each chronic condition, including the percent of each condition who were low-income, had Medi-Cal, or were age 65 and over. The distribution of adults with each chronic condition who were low-income highlights counties where individuals with chronic conditions may have fewer resources available to effectively treat and manage their condition. The distribution of adults with a chronic condition who have Medi-Cal shows the importance of public health service funding for medical treatment and management of individuals with chronic conditions at the local level. The range of services available to that portion of chronic illness sufferers is determined by Medi-Cal policies and
practices. The distribution of adults 65 and over among each chronic condition population shows that chronic conditions and their consequences are not only issues for the elderly with Medicare. It suggests that there are substantial numbers of adults with chronic conditions who may be particularly sensitive to problems accessing health services. These distributions are presented to provide a deeper understanding of each chronic condition population for policymakers and public health officials as they target intervention efforts and plan service provision. Distributions of adults with each chronic condition who were limited English proficient and uninsured at any time were not included in this report due to space limitations but can be found online at: www.healthpolicy.ucla.edu/chronic_cond_supp_05.html

This report is divided into four sections. The first section provides a narrative summary of key findings about chronic disease prevalence and the characteristics of the population with each condition. The second section presents maps that summarize the aggregated prevalence of chronic conditions among adults, problems accessing health care and barriers to health care access. The third section of the report presents narrative summaries, prevalence rates and descriptive data on the characteristics of selected chronic conditions among adults and children. Further details on methodology can be found in the final section of this report.

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11 D Satter, NR Burrows, M Gatchell, M Tauali'l, DT Welch. Diabetes Among American Indians and Alaska Natives in California: Prevention is Key. Los Angeles: UCLA Center for Health Policy Research, 2003. http://www.healthpolicy.ucla.edu/pubs/publication.asp?pub/D=81

Meng, SH Babey, E Malcolm, ER Brown, and N Chawla. Asthma in California: Findings from the 2001 California Health Interview Survey. Los Angeles: UCLA Center for Health Policy Research, 2003. http://www.healthpolicy.ucla.edu/pubs/publication.asp?pub/D=83

Due to space limitations, the chronic conditions index among children's map, regional exhibits describing adults and children with a chronic condition who were uninsured anytime and limited English proficient, county demographic profiles and confidence intervals are available only online at: www.healthpolicy.ucla.edu/ chronic_cond_supp_05.html

## SUMMARY OF FINDINGS

The following provides an overview of key findings on the prevalence of selected chronic conditions and the demographic characteristics of each population impacted by a chronic condition.

## Chronic Conditions Indices and Access Indicators

- Chronic conditions—adults: In 2003, 11.5 million California adults age 18 and over ( $45.2 \%$ ) were living with one or more chronic conditions, including heart disease, hypertension, diabetes, asthma or fair/poor health status. The areas with the highest rates of having any of these conditions were Los Angeles Service Planning Area (LA SPA) South, Madera County, Lake/Mendocino county group, Kern County, and Colusa/Glenn county group (Exhibit 1, Map 1).
- Chronic conditions-children: In 2003, 1.9 million children ages 1-17 (21.7\%) were living with asthma and/or fair-poor health status. Counties with the highest rates were found clustered in the Central Valley: Merced County, San Joaquin County, Colusa/Glenn county group, Kings County and Tulare County (Exhibit 1).
- Access problems—experienced: Almost one third of adults in California (32.1\%) experienced one or more problems accessing health services, either encountering delays accessing health services or
having no usual source of care. LA SPA Metro was the area with the highest rate of problems accessing health services followed by the more rural counties of Santa Cruz, Imperial, Kern and Butte (Exhibit 1, Map 2).
- Access-potential barriers: Almost half of adults (44.7\%) had one or more potential barriers to health service access in 2003, such as being uninsured anytime in the past year, limited English proficient, or low-income. LA SPA South was the area with the highest rate of potential barriers to health service access, followed by Imperial County, LA SPA Metro and Tulare County (Exhibit 1, Map 3).
- Highest impact areas: The Composite of Chronic Conditions and Access Indicators is an index of the five chronic conditions of adults, the summary indicator of problems experienced accessing health services, and the summary indicator of potential barriers to health care access. Overall, the Colusa/Glenn county group, Kern County, Madera County and Merced County were the areas where six out of seven indicators were the worst in the state. Marin County and Santa Clara County had among the best rates in all seven indicators, followed by LA SPA West, San Diego County and San Mateo County, with among the best rates in six out of seven indicators (Exhibit 2).


## Heart Disease

- The proportion of adults in California who reported being diagnosed with heart disease varied by county-from 4.5 to $12.7 \%$. The counties with the highest rates of heart disease were primarily found in the Northern/Sierra region. Over one in ten adults in the county groups of Alpine/Amador, Sutter/Yuba, Del Norte/Humboldt, and Butte, Shasta and Kern counties had heart disease in 2003 (Exhibit 4).
- There were factors that complicated access to health services for many adults with heart disease. Over onethird of adults with heart disease (37.3\%) were lowincome (living below $200 \%$ FPL), approximately onefifth of adults with heart disease had Medi-Cal, and only one-half were age 65 or older (Exhibit 4).


## Hypertension

- In 2003, over six million adults reported being diagnosed with hypertension in California and it was most common in the Lake/Mendocino county group and Solano County ( $32.9 \%$ and $31 \%$, respectively). However, over one-third of all California adults with hypertension were found in two counties that had the largest numbers of adults with hypertension: Los Angeles County $(1,672,000)$ and San Diego County (497,000; Exhibit 6).
- Los Angeles County had the greatest proportion of adults with hypertension who were Latino (30.2\%) and African American (13.7\%). The Greater Bay Area had the greatest proportion of adults with hypertension who were Asian ( $17 \%$ ). The Northern/Sierra region had the greatest proportion of adults with hypertension who were American Indian/Alaska Native (2.4\%; Exhibit 5). Since these are distributions, not rates, they indicate priority populations in each region but do not provide information about the relative risk between regions.


## Diabetes

- More than 1.6 million California adults reported being diagnosed with diabetes in 2003. The highest rates of diabetes were found in Imperial (10.9\%), Madera (9.8\%) and Merced (9.7\%) Counties (Exhibit 8).
- Almost half of adults with diabetes (45.6\% or over $765,000)$ were low-income and over one-third were adults over the age of 65 ( $37 \%$ or over 620,000 ; Exhibit 8).


## Fair or Poor Health Status

- One in five California adults, or 5.2 million, reported having fair or poor health status in 2003. Of these adults three-fifths were low-income and nearly onethird had Medi-Cal (Exhibit 10).
- Approximately one out of three adults in LA SPA South and Imperial County had fair or poor health status in 2003-the highest rates in the state. Other areas with high rates include the Colusa/Glenn county group (28.2\%), LA SPA Metro (27.8\%), Kern (27.8\%), Madera (27.7\%), Merced (27.3\%) and Kings (27.1\%) counties (Exhibit 10).


## Asthma Among Adults and Children

- In 2001-03 the highest rates of asthma among adults were found in Solano County ( $18.3 \%$ ), the Del Norte/Humboldt county group (16.7\%) and Napa County (16.6\%; Exhibit 12).
- Among adults diagnosed with asthma, $56.4 \%$ were low-income in the Colusa/Glenn county group-the highest proportion in the state, followed by LA SPA South (54.6\%) and Kings County (52.3\%; Exhibit 12).
- In 2001-03, asthma among children was most commonly found in Solano County ( $21.2 \%$ ), followed by Kings County (20.8\%), Sacramento County ( $19.9 \%$ ) and San Joaquin County (19.8\%). Among children diagnosed with asthma, $71.9 \%$ were low-income in LA SPA South-the highest proportion in the state (Exhibit 14).


## CONCLUSION: AREAS WITH THE HEAVIEST

 BURDEN OF CHRONIC CONDITIONSThe Composite of Chronic Conditions and Access Indicators can be used to determine areas in the state with the highest overall burden of chronic conditions (Exhibit 2). Overall, the Colusa/Glenn county group, Kern County, Madera County and Merced County were the areas with the most pressing needs, where six out of seven indicators for chronic condition rates, problems accessing health services or barriers to health care access were highest in 2003. Areas where five out of the seven indicators were highest included Butte County, Lake/Mendocino county group, LA SPA South, LA SPA South Bay, San Bernardino County, Shasta County and the Sutter/Yuba county group.

## Maps and Exhibits of Chronic Conditions

## Indices and Access Indicators

MAP 1:PERCENTAGE OF ADULTS WITH ONE OR MORE CHRONIC CONDITIONS


* Rates reflect the percentage of adults 18 and over who had one or more of the following chronic conditions in 2003: heart disease, hypertension, diabetes, asthma, or fair or poor health status.
† Counties with populations under 100,000 were grouped together into regions to produce reliable estimates.

Source: Estimates calculated by the UCLA Center for Health Policy Research, 2003 California Health Interview Survey.

MAP 2: PERCENTAGE OF ADULTS WITH ONE OR MORE PROBLEMS ACCESSING HEALTH SERVICES


* Rates reflect the percentage of adults 18 and over who experienced one or more of the following in 2003: a delay accessing health services or no usual source of care.
$\dagger$ Counties with populations under 100,000 were grouped together into regions to produce reliable estimates.

Source: Estimates calculated by the UCLA Center for Health Policy Research, 2003 California Health Interview Survey.

MAP 3: PERCENTAGE OF ADULTS WITH ONE OR MORE BARRIERS TO HEALTH CARE ACCESS


* Rates reflect the percentage of adults 18 and over who had one or more of the following barriers to health care access in 2003: being uninsured anytime in 2003, limited English proficiency, or low income (below 200\% of the Federal Poverty Level).
† Counties with populations under 100,000 were grouped together into regions to produce reliable estimates.

Source: Estimates calculated by the UCLA Center for Health Policy Research, 2003 California Health Interview Survey.

| EXHIBIT 1. CHRONIC CONDITIONS INDICES AND ACCESS INDICATORS, 2003 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| COUNTY | PERCENTAGE OF ONE OR MORE CHRONIC CONDITIONS AMONG ADULTS AGE 18+ ${ }^{\text {a }}$ | GROUP** | PERCENTAGE OF ONE OR MORE CHRONIC CONDITIONS AMONG CHILDREN AGE 1-17 b | GROUP** | PERCENTAGE OF ONE OR PROBLEMS ACCESSING HEALTH SERVICES AMONG ADULTS AGE 18+ ${ }^{\text {c }}$ | GROUP** | PERCENTAGE OF ONE OR MORE BARRIERS TO HEALTH CARE ACCESS AMONG ADULTS AGE 18+ ${ }^{\text {d }}$ | GROUP** |
| CALIFORNIA | 45.2 | - | 21.7 | - | 32.1 | - | 44.7 | - |
| ALAMEDA | 41.2 | 1 | 23.6 | 4 | 31.8 | 3 | 39.7 | 2 |
| ALPINE, AMADOR, CALAVERAS, INYO, MARIPOSA, MONO, TUOLUMNE | 49.5 | 4 | 15.7* | 1 | 28.8 | 1 | 42.3 | 2 |
| BUTTE | 47.7 | 3 | 25.4 | 5 | 38.1 | 5 | 50.5 | 4 |
| COLUSA, GLENN, TEHAMA | 53.4 | 5 | 30.2 | 5 | 31.1 | 3 | 53.8 | 5 |
| CONTRA COSTA | 46.5 | 3 | 24.0 | 4 | 29.6 | 2 | 28.3 | 1 |
| DEL NORTE, HUMBOLDT | 49.7 | 4 | 20.1 | 2 | 32.5 | 3 | 50.1 | 4 |
| EL DORADO | 46.2 | 3 | 20.8 | 3 | 32.0 | 3 | 31.5 | 1 |
| FRESNO | 52.4 | 5 | 25.1 | 4 | 32.9 | 3 | 54.8 | 5 |
| IMPERIAL | 50.4 | 5 | 24.0 | 4 | 38.8 | 5 | 68.7 | 5 |
| KERN | 53.4 | 5 | 23.5 | 3 | 38.1 | 5 | 53.3 | 4 |
| KINGS | 47.4 | 3 | 29.7 | 5 | 35.4 | 4 | 55.0 | 5 |
| LAKE, MENDOCINO | 53.8 | 5 | 12.2* | 1 | 36.4 | 5 | 45.5 | 3 |
| LASSEN, MODOC, SISKIYOU, TRINITY | 52.0 | 5 | 16.9 | 1 | 27.4 | 1 | 45.1 | 3 |
| LOS ANGELES | 46.6 | 3 | 21.3 | 3 | 33.7 | 4 | 50.7 | 4 |
| LA SPA ANTELOPE VALLEY | 46.1 | 3 | 22.2 | 3 | 38.0 | 5 | 43.1 | 3 |
| LA SPA EAST | 45.7 | 2 | 20.6 | 2 | 31.1 | 3 | 54.7 | 5 |
| LA SPA METRO | 45.8 | 3 | 20.9 | 3 | 39.7 | 5 | 63.5 | 5 |
| LA SPA SAN FERNANDO | 45.1 | 2 | 17.9 | 1 | 31.3 | 3 | 43.9 | 3 |
| LA SPA SAN GABRIEL | 46.3 | 3 | 24.7 | 4 | 31.0 | 2 | 51.6 | 4 |
| LA SPA SOUTH | 54.1 | 5 | 24.7 | 4 | 37.7 | 5 | 73.8 | 5 |
| LA SPA SOUTH BAY | 49.4 | 4 | 20.5 | 2 | 33.7 | 4 | 46.3 | 3 |
| LA SPA WEST | 40.9 | 1 | 22.8 | 3 | 35.3 | 4 | 31.4 | 1 |
| MADERA | 53.9 | 5 | 19.2 | 2 | 27.7 | 1 | 52.1 | 4 |
| MARIN | 34.0 | 1 | 10.3* | 1 | 29.1 | 2 | 18.9 | 1 |
| MERCED | 50.9 | 5 | 31.3 | 5 | 30.9 | 2 | 58.1 | 5 |
| MONTEREY, SAN BENITO | 47.5 | 3 | 25.9 | 5 | 35.7 | 4 | 51.7 | 4 |
| NAPA | 49.5 | 4 | 24.9 | 4 | 29.0 | 2 | 35.0 | 1 |



EXHIBIT 2. COMPOSITE OF CHRONIC CONDITIONS AND ACCESS INDICATORS, ADULTS AGE 18 AND OVER, 2003

|  |  |  |  | GROUP OR OUINTILE |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

XHIBIT 2. COMPOSITE OF CHRONIC CONDITIONS AND ACCESS INDICATORS, ADULTS AGE 18 AND OVER, 2003 (CONTINUED)

| COUNTY | GROUP OR QUINTILE |  |  |  |  |  |  | TOTAL NUMBER OF INDICATORS IN BEST TWO GROUPS | TOTAL NUMBER OF INDICATORS IN WORST TWO GROUPS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | HEART DISEASE | HYPERTENSION | ASTHMA AMONG ADULTS | DIABETES | FAIR OR POOR HEALTH STATUS | PERCENT OF ONE OR MORE PROBLEMS ACCESSING HEALTH SERVICES | PERCENT OF ONE OR MORE BARRIERS TO HEALTH CARE ACCESS |  |  |
| CALIFORNIA | - | - | - | - | - | - | - | - | - |
| NEVADA, PLUMAS, SIERRA | 4 | 4 | 5 | 1 | 1 | 5 | 2 | 3 | 4 |
| ORANGE | 1 | 1 | 1 | 3 | 3 | 2 | 2 | 5 | 0 |
| PLACER | 4 | 1 | 5 | 2 | 1 | 1 | 1 | 5 | 2 |
| RIVERSIDE | 3 | 3 | 1 | 3 | 3 | 4 | 3 | 1 | 1 |
| SACRAMENTO | 2 | 2 | 4 | 4 | 1 | 2 | 2 | 5 | 2 |
| SAN BERNARDINO | 3 | 4 | 3 | 5 | 4 | 4 | 4 | 0 | 5 |
| SAN DIEGO | 2 | 2 | 1 | 2 | 1 | 3 | 2 | 6 | 0 |
| SAN FRANCISCO | 2 | 2 | 1 | 3 | 2 | 3 | 2 | 5 | 0 |
| SAN JOAQUIN | 1 | 5 | 3 | 4 | 3 | 1 | 3 | 2 | 2 |
| SAN LUIS OBISPO | 3 | 4 | 4 | 1 | 1 | 2 | 2 | 4 | 2 |
| SAN MATEO | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 6 | 0 |
| SANTA BARBARA | 1 | 1 | 2 | 2 | 3 | 1 | 3 | 5 | 0 |
| SANTA CLARA | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 7 | 0 |
| SANTA CRUZ | 3 | 1 | 4 | 1 | 2 | 5 | 2 | 4 | 2 |
| SHASTA | 5 | 4 | 5 | 5 | 3 | 4 | 3 | 0 | 5 |
| SOLANO | 3 | 5 | 5 | 3 | 3 | 1 | 1 | 2 | 2 |
| SONOMA | 4 | 3 | 3 | 2 | 1 | 2 | 1 | 4 | 1 |
| STANISLAUS | 1 | 1 | 3 | 2 | 3 | 4 | 4 | 3 | 2 |
| SUTTER, YUBA | 5 | 3 | 3 | 5 | 4 | 4 | 4 | 0 | 5 |
| TULARE | 2 | 4 | 3 | 5 | 5 | 3 | 5 | 1 | 4 |
| VENTURA | 1 | 2 | 3 | 2 | 2 | 1 | 3 | 5 | 0 |
| YOLO | 2 | 1 | 3 | 3 | 1 | 2 | 2 | 5 | 0 |

Note: The county and SPA rates for each indicator were first ranked from lowest to highest then divided into five groups or quintiles. Chronic condition rates can be found in Section Three. Rates for access indicators can be found in Exhibit 1: Chronic Condition Indices and Access Indicators, 2003.
Group 1 reflects counties or SPAs with the least amount of a chronic condition. Counties or SPAs within the first group were the healthiest one fifth of the state.
Group 2 reflects counties or SPAs with the second least amount of a chronic condition. Counties or SPAs within the second group were the healthiest second fifth of the state.

Group 3 reflects counties or SPAs with the third least amount of a chronic condition. Counties or SPAs within the third group were the healthiest middle fifth of the state.

Group 4 reflects counties or SPAs with the second highest amount of a chronic condition. Counties or SPAs within the fourth group are the second least healthy fifth of the state.
Group 5 reflects counties or SPAs with the highest amount of a chronic condition. Counties or SPAs within the fifth group were the least healthy fifth of the state.

Confidence intervals and other supplemental materials are available at: http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.htm/
Source: 2003 California Health Interview Survey

## Chronic Conditions Prevalence and Characteristics Sect2012

## HEART DISEASE SUMMARY

## Statewide Characteristics

- In $2003,6.9 \%$ or more than 1.7 million California adults age 18 and over reported being diagnosed with heart disease (Exhibit 4).
- Among all California adults with heart disease, over one-third had low-incomes (below $200 \%$ of the Federal Poverty Level) and roughly one-fifth had Medi-Cal (Exhibit 4).
- Approximately half of the adults with heart disease in California were age 65 and over (Exhibit 4). Half of the California adults with heart disease were then under 65 and reliant primarily on health insurance other than Medicare if they were insured.


## Racial and Ethnic Characteristics

- Among California adults with heart disease, the racial/ethnic distribution was $18.4 \%$ Latino, $1.1 \%$ American Indian/Alaska Native, $8.4 \%$ Asian, $6.7 \%$ African American, $63.2 \%$ white, and $2.3 \%$ other (Exhibit 3). Since this is the racial/ethnic
composition of the population with heart disease, it cannot be used to make between group comparisons.
- Over one-quarter of adults with heart disease in Los Angeles County and the San Joaquin Valley were Latino (Exhibit 3).
- The Greater Bay Area had the highest proportion of adults with heart disease who were Asian and African American (Exhibit 3).


## County Specific Characteristics

- In 2003 the highest prevalence of heart disease was found in Alpine County (12.7\%) while San Joaquin County had the lowest rate ( $4.5 \%$; Exhibit 4).
- Almost two-thirds of adults with heart disease in Imperial County and LA SPA South were low-income (Exhibit 4).
- Among adults with heart disease, over one-fifth ( $22 \%$ ) had Medi-Cal. The areas of Fresno County, Imperial County, and LA SPA South had over twice the statewide proportion of adults with heart disease on Medi-Cal (Exhibit 4).

| EXHIBIT 3. RACIAL AND ETHNIC CHARACTERISTICS OF ADULTS AGE 18 AND OVER WITH HEART DISEASE BY REGION, CALIFORNIA, 2001 AND 2003 COMBINED |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ADULTS AGE 18 AND OVER WITH HEART DISEASE (HD) |  |  |  |  |  |  |
| LOCATION | PERCENT OF ADULTS W/HD WHO WERE LATINO | PERCENT OF ADULTS W/HD WHO WERE AIAN | PERCENT OF ADULTS W/HD WHO WERE ASIAN | PERCENT OF ADULTS W/HD WHO WERE AFRICAN AMERICAN | PERCENT OF ADULTS W/HD WHO WERE WHITE | PERCENT OF ADULTS W/HD WHO WERE OTHER | TOTAL PERCENT |
| CALIFORNIA | 18.4 | 1.1 | 8.4 | 6.7 | 63.2 | 2.3 | 100 |
| NORTHERN/SIERRA | 4.4 | 2.5 | 1.3* | 0.7* | 87.8 | 3.2 | 100 |
| GREATER BAY AREA | 9.8 | 0.6* | 13.5 | 10.9 | 63.4 | 1.9 | 100 |
| SACRAMENTO | 6.6 | 1.8* | 8.0* | 8.1 | 71.7 | 3.8 | 100 |
| SAN JOAQUIN VALLEY | 26.4 | 1.3 | 2.9* | 5.9 | 60.6 | 2.8 | 100 |
| CENTRAL COAST | 19.2 | 1.7* | 4.6* | 1.9* | 69.5 | 3.1 | 100 |
| LOS ANGELES COUNTY | 26.2 | 0.7* | 11.3 | 8.9 | 51.5 | 1.5 | 100 |
| OTHER SOUTHERN CALIFORNIA COUNTIES | 18.9 | 1.2 | 6.1 | 3.7 | 67.4 | 2.6 | 100 |

Confidence intervals and other supplemental materials are available at: http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html

| EXHIBIT 4. LOW-INCOME, MEDI-CAL, AND AGE 65 AND OVER CHARACTERISTICS OF ADULTS WITH HEART DISEASE BY COUNTY, CALIFORNIA 2003 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS AGE 18 AND OVER WITH HEART DISEASE |  |  |
| LOCATION TOTAL | OTAL PERCENT OF ADULTS WITH HEART DISEASE | TOTAL NUMBER OF ADULTS WITH HEART DISEASE | PERCENT OF ADULTS WITH HEART DISEASE WHO WERE LOW-INCOME (0-199\% FPL) | PERCENT OF ADULTS WITH HEART DISEASE WHO HAD MEDI-CAL | PERCENT OF ADULTS WITH HEART DISEASE WHO WERE AGE 65 AND OVER |
| CALIFORNIA | 6.9 | 1,763,000 | 37.3 | 22.0 | 52.0 |
| ALAMEDA | 5.4 | 60,000 | 36.6 | 23.8 | 51.6 |
| ALPINE, AMADOR, CALAVERAS, INYO, MARIPOSA, MONO, TUOLUMNE | 12.7 | 18,000 | 36.5 | 26.7 | 63.8 |
| BUTTE | 11.6 | 18,000 | 44.6 | 27.5 | 55.7 |
| COLUSA, GLENN, TEHAMA | 10.9 | 8,000 | 27.8 | 19.5 | 53.8 |
| CONTRA COSTA | 7.6 | 56,000 | 25.9 | 25.7* | 49.7 |
| DEL NORTE, HUMBOLDT | 11.7 | 13,000 | 50.3 | 31.5 | 53.9 |
| EL DORADO | 6.9 | 9,000 | 25.3* | 10.0* | 52.2 |
| FRESNO | 7.4 | 43,000 | 54.6 | 47.5 | 55.1 |
| IMPERIAL | 6.8 | 7,000 | 65.6 | 44.2 | 49.1 |
| KERN | 11.2 | 53,000 | 34.1 | 32.3 | 48.4 |
| KINGS | 6.7 | 6,000 | 52.0 | 31.7 | 51.0 |
| LAKE, MENDOCINO | 8.9 | 10,000 | 41.4 | 29.6 | 56.1 |
| LASSEN, MODOC, SISKIYOU, TRINITY | 10.8 | 8,000 | 51.6 | 27.4 | 58.1 |
| LOS ANGELES | 6.9 | 493,000 | 42.1 | 24.4 | 48.5 |
| LA SPA ANTELOPE VALLEY | Y 8.3 | 17,000 | 42.8 | 34.4 | 52.4 |
| LA SPA EAST | 8.4 | 75,000 | 49.6 | 24.8 | 43.3 |
| LA SPA METRO | 6.2 | 55,000 | 54.7 | 35.3 | 41.3 |
| LA SPA SAN FERNANDO | 6.6 | 99,000 | 34.3 | 16.7 | 57.7 |
| LA SPA SAN GABRIEL | 6.5 | 83,000 | 41.0 | 27.9 | 54.9 |
| LA SPA SOUTH | 5.9 | 33,000 | 65.3 | 53.6 | 45.3 |
| LA SPA SOUTH BAY | 8.2 | 100,000 | 37.7 | 14.9 | 41.1 |
| LA SPA WEST | 5.5 | 32,000 | 20.3* | 13.5* | 52.8 |
| MADERA | 8.2 | 7,000 | 37.1 | 14.2* | 59.7 |
| MARIN | 6.3 | 12,000 | 7.1* | 5.6* | 52.4 |
| MERCED | 8.7 | 13,000 | 49.5 | 35.5 | 48.4 |
| MONTEREY, SAN BENITO | 8.3 | 27,000 | 48.7 | 26.1* | 65.5 |
| NAPA | 9.5 | 9,000 | 16.7* | - | 58.9 |
| NEVADA, PLUMAS, SIERRA | 9.0 | 9,000 | 33.7 | 22.2* | 58.8 |

16 CHRONIC CONDITIONS OF CALIFORNIANS

| EXHIBIT 4. LOW-INCOME, MEDI-CAL, AND AGE 65 AND OVER CHARACTERISTICS OF ADULTS WITH HEART DISEASE BY COUNTY, CALIFORNIA 2003 (CONTINUED) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS AGE 18 AND OVER WITH HEART DISEASE |  |  |
| LOCATION | TOTAL PERCENT OF ADULTS WITH HEART DISEASE | TOTAL NUMBER OF ADULTS WITH HEART DISEASE | PERCENT OF ADULTS WITH HEART DISEASE WHO WERE LOW-INCOME (0-199\% FPL) | PERCENT OF ADULTS WITH HEART DISEASE WHO HAD MEDI-CAL | PERCENT OF ADULTS WITH HEART DISEASE WHO WERE AGE 65 AND OVER |
| CALIFORNIA | 6.9 | 1,763,000 | 37.3 | 22.0 | 52.0 |
| ORANGE | 5.9 | 128,000 | 32.0 | 11.5 | 50.4 |
| PLACER | 7.7 | 16,000 | 20.4* | 20.9* | 60.3 |
| RIVERSIDE | 6.9 | 83,000 | 34.6 | 21.4 | 63.4 |
| SACRAMENTO | 6.4 | 61,000 | 22.0 | 17.1* | 55.9 |
| SAN BERNARDINO | 7.2 | 91,000 | 54.9 | 27.6 | 45.6 |
| SAN DIEGO | 6.6 | 143,000 | 34.5 | 17.3 | 47.2 |
| SAN FRANCISCO | 6.4 | 42,000 | 27.5 | 21.4 | 58.1 |
| SAN JOAQUIN | 4.5 | 19,000 | 25.0* | 10.6* | 38.5 |
| SAN LUIS OBISPO | 6.9 | 13,000 | 28.4 | 10.2* | 74.6 |
| SAN MATEO | 6.0 | 32,000 | 28.4* | 9.9* | 65.9 |
| SANTA BARBARA | 5.4 | 16,000 | 37.8 | 22.7* | 50.8 |
| SANTA CLARA | 5.8 | 73,000 | 29.6 | 17.5 | 56.3 |
| SANTA CRUZ | 7.6 | 15,000 | 42.9 | 17.2* | 46.9 |
| SHASTA | 11.4 | 15,000 | 37.1 | 24.0 | 65.2 |
| SOLANO | 7.1 | 20,000 | 44.6 | 24.6* | 48.2 |
| SONOMA | 8.5 | 30,000 | 30.0 | 9.1* | 58.2 |
| STANISLAUS | 5.6 | 19,000 | 44.8 | 26.8* | 49.6 |
| SUTTER, YUBA | 11.9 | 12,000 | 33.2 | 24.8 | 41.4 |
| TULARE | 6.6 | 17,000 | 45.4 | 13.4* | 51.6 |
| VENTURA | 5.6 | 32,000 | 25.6 | 17.0* | 51.2 |
| YOLO | 6.4 | 8,000 | 31.6* | 17.5* | 60.4 |

[^2]
## HYPERTENSION SUMMARY

## Statewide Characteristics

- In 2003, over six million of California adults age 18 and over ( $23.5 \%$ ) reported being diagnosed with hypertension (Exhibit 6).
- More than one-third of the over six million adults with hypertension in California were low-income (below $200 \%$ of the Federal Poverty Level) and almost one-fifth of adults with hypertension had Medi-Cal (Exhibit 6).
- Only one-third of adults with hypertension were age 65 and over while the approximately remaining twothirds of adults with hypertension were under the age of 65 (Exhibit 6). While the risk of hypertension increases with age, hypertension is a significant issue for many non-elderly adults.


## Racial and Ethnic Characteristics

- Among California adults with hypertension, the racial/ethnic distribution was 22.9\% Latino, $0.8 \%$ American Indian/Alaska Native, 10.4\% Asian, 8.8\% African American, 54.9\% white, and 2.1\% other (Exhibit 5). Since this is the racial/ethnic composition of the population with hypertension, it cannot be used to make between group comparisons.
- Los Angeles County had the highest proportion of adults with hypertension who were Latino and African American. Among adults with hypertension in LA County, one-third were Latino and $13.7 \%$ were African American. The greatest proportions of Asian adults with hypertension were found in the Greater Bay Area (Exhibit 5). These rates provide information on the characteristics of those with hypertension in each region and not on the risk of hypertension for different racial/ethnic groups.


## County Specific Characteristics

- One-third of adults in Lake/Mendocino county group had hypertension in 2003-the highest prevalence in the state. Adults in Santa Cruz had the lowest prevalence of hypertension in California (19.3\%; Exhibit 6).
- The majority of adults with hypertension were lowincome in three areas of the state: $59.2 \%$ in Imperial County and nearly two-thirds in LA SPA Metro and LA SPA South (Exhibit 6).
- Among adults with hypertension in Imperial County and LA SPA South, over one-third had Medi-Cal (Exhibit 6).

|  | EXHIBIT 5. RACIAL AND ETHNIC CHARACTERISTICS OF ADULTS AGE 18 AND OVER WITH HYPERTENSION BY REGION, CALIFORNIA 2001 AND 2003 COMBINED |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS | GE 18 AND OVER W | H HYPERTENSION |  |  |
| LOCATION | PERCENT OF ADULTS WITH HYPERTENSION WHO WERE LATINO | PERCENT OF ADULTS WITH HYPERTENSION WHO WERE AIAN | PERCENT OF ADULTS WITH HYPERTENSION WHO WERE ASIAN | PERCENT OF ADULTS WITH HYPERTENSION WHO WERE AFRICAN AMERICAN | PERCENT OF ADULTS WITH HYPERTENSION WHO WERE WHITE | PERCENT OF ADULTS WITH HYPERTENSION WHO WERE OTHER | TOTAL PERCENT |
| CALIFORNIA | 22.9 | 0.8 | 10.4 | 8.8 | 54.9 | 2.1 | 100 |
| NORTHERN/SIERRA | 6.8 | 2.4 | 1.7 | 1.3 | 84.7 | 3.0 | 100 |
| GREATER BAY AREA | 14.7 | 0.6 | 17.0 | 10.6 | 54.9 | 2.1 | 100 |
| SACRAMENTO | 11.8 | 0.8* | 9.6 | 8.5 | 66.1 | 3.1 | 100 |
| SAN JOAQUIN VALLEY | 28.3 | 1.7 | 5.8 | 5.9 | 56.0 | 2.3 | 100 |
| CENTRAL COAST | 24.7 | 1.1 | 5.0 | 3.4 | 63.9 | 1.8 | 100 |
| LOS ANGELES COUNTY | 30.2 | 0.4 | 12.2 | 13.7 | 41.8 | 1.7 | 100 |
| OTHER SOUTHERN CALIFORNIA COUNTIES | 24.3 | 0.7 | 8.3 | 6.1 | 58.5 | 2.0 | 100 |

*Unstable estimate
Confidence intervals and other supplemental materials are available at: http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.htm/

| EXHIBIT 6. LOW-INCOME, MEDI-CAL, AND AGE 65 AND OVER CHARACTERISTICS OF ADULTS WITH HYPERTENSION BY COUNTY, CALIFORNIA 2003 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS AGE 18 AND OVER WITH HYPERTENSION |  |  |
| LOCATION TOTA | OTAL PERCENT OF ADULTS WITH HYPERTENSION | TOTAL NUMBER OF ADULTS WITH HYPERTENSION | PERCENT OF ADULTS WITH HYPERTENSION WHO WERE LOW-INCOME (0-199\% FPL) | PERCENT OF ADULTS WITH HYPERTENSION WHO HAD MEDI-CAL | PERCENT OF ADULTS WITH HYPERTENSION WHO WERE AGE 65 AND OVER |
| CALIFORNIA | 23.5 | 6,012,000 | 34.9 | 18.7 | 35.9 |
| ALAMEDA | 21.1 | 234,000 | 29.0 | 17.6 | 37.2 |
| ALPINE, AMADOR, CALAVERAS, INYO MARIPOSA, MONO, TUOLUMNE | 29.9 | 42,000 | 27.6 | 18.9 | 47.3 |
| BUTTE | 26.6 | 42,000 | 40.7 | 25.2 | 38.8 |
| COLUSA, GLENN, TEHAMA | 28.1 | 21,000 | 37.3 | 16.7 | 38.7 |
| CONTRA COSTA | 26.5 | 194,000 | 22.3 | 18.4 | 33.5 |
| DEL NORTE, HUMBOLDT | 25.0 | 28,000 | 38.0 | 23.8 | 36.2 |
| EL DORADO | 25.7 | 32,000 | 25.8 | 7.2* | 35.0 |
| FRESNO | 25.1 | 145,000 | 40.4 | 23.8 | 28.3 |
| IMPERIAL | 24.3 | 25,000 | 59.2 | 40.1 | 32.7 |
| KERN | 27.5 | 131,000 | 37.7 | 30.1 | 29.8 |
| KINGS | 21.6 | 18,000 | 48.3 | 18.5 | 30.8 |
| LAKE, MENDOCINO | 32.9 | 37,000 | 42.4 | 28.8 | 41.9 |
| LASSEN, MODOC, SISKIYOU, TRINITY | 30.0 | 21,000 | 38.8 | 19.5 | 39.6 |
| LOS ANGELES | 23.5 | 1,672,000 | 40.5 | 20.5 | 35.9 |
| LA SPA ANTELOPE VALLEY | EY 23.1 | 47,000 | 29.1 | 19.9 | 28.9 |
| LA SPA EAST | 22.6 | 203,000 | 44.6 | 18.0 | 32.0 |
| LA SPA METRO | 19.7 | 172,000 | 63.6 | 33.0 | 38.5 |
| LA SPA SAN FERNANDO | 23.0 | 343,000 | 28.8 | 16.5 | 40.9 |
| LA SPA SAN GABRIEL | 25.0 | 320,000 | 40.7 | 19.6 | 36.9 |
| LA SPA SOUTH | 27.1 | 150,000 | 63.4 | 38.2 | 24.6 |
| LA SPA SOUTH BAY | 25.2 | 307,000 | 37.1 | 17.8 | 36.4 |
| LA SPA WEST | 22.2 | 130,000 | 19.6 | $6.4 *$ | 37.4 |
| MADERA | 26.9 | 24,000 | 33.2 | 15.6 | 36.4 |
| MARIN | 21.6 | 41,000 | 19.8 | 11.6 | 44.9 |
| MERCED | 26.1 | 40,000 | 50.5 | 21.2 | 29.3 |
| MONTEREY, SAN BENITO | 21.4 | 70,000 | 30.3 | 16.7 | 40.7 |
| NAPA | 22.7 | 21,000 | 18.0 | 12.3 | 44.8 |
| NEVADA, PLUMAS, SIERRA | - 25.7 | 24,000 | 32.3 | 9.7 | 44.4 |


|  |  |  | ADULTS | AND OVER WITH H | SIION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LOCATION | total percent of ADULTS WITH HYPERTENSION | TOTAL NUMBER OF ADULTS WITH HYPERTENSION | PERCENT OF ADULTS WITH HYPERTENSION WHO WERE LOW-INCOME (0-199\% FPL) | PERCENT OF ADULTS WITH HYPERTENSION WHO HAD MEDICAL | PERCENT OF ADULTS WITH HYPERTENSION WHO WERE AGE 65 AND OVER |
| CALIFORNIA | 23.5 | 6,012,000 | 34.9 | 18.7 | 35.9 |
| ORANGE | 20.6 | 445,000 | 32.7 | 14.4 | 36.8 |
| PLACER | 20.8 | 44,000 | 16.3 | 7.0* | 43.1 |
| RIVERSIDE | 24.6 | 298,000 | 37.2 | 14.4 | 41.6 |
| SACRAMENTO | 21.9 | 209,000 | 31.9 | 24.3 | 39.7 |
| SAN BERNARDINO | 25.9 | 325,000 | 43.4 | 26.7 | 29.7 |
| SAN DIEGO | 22.9 | 497,000 | 29.2 | 13.5 | 35.1 |
| SAN FRANCISCO | 22.1 | 144,000 | 34.2 | 22.5 | 39.9 |
| SAN JOAQUIN | 29.1 | 122,000 | 33.1 | 15.8 | 28.5 |
| SAN LUIS OBISPO | 26.0 | 49,000 | 24.5 | 10.4 | 42.4 |
| SAN MATEO | 23.3 | 125,000 | 25.4 | 14.6 | 39.5 |
| SANTA BARBARA | 20.2 | 59,000 | 25.0 | 14.0 | 41.2 |
| SANTA CLARA | 21.6 | 271,000 | 27.6 | 12.8 | 34.9 |
| SANTA CRUZ | 19.3 | 37,000 | 27.3 | 12.1* | 35.0 |
| SHASTA | 25.9 | 34,000 | 39.1 | 21.9 | 42.4 |
| SOLANO | 31.0 | 89,000 | 35.3 | 17.8 | 31.6 |
| SONOMA | 23.9 | 84,000 | 25.7 | 17.2 | 37.9 |
| STANISLAUS | 21.4 | 72,000 | 34.4 | 19.7 | 34.5 |
| SUTTER, YUBA | 23.6 | 24,000 | 39.8 | 22.4 | 30.5 |
| TULARE | 25.9 | 67,000 | 46.9 | 27.1 | 31.7 |
| VENTURA | 22.5 | 128,000 | 32.3 | 17.5 | 31.6 |
| YOLO | 19.7 | 26,000 | 25.9 | 5.5* | 33.4 |

* Unstable estimate. Dash (-) indicates the sample size is too small to provide any Source: 2003 California Health Interview Survey estimate.
Confidence intervals and other supplemental materials are available at:
http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html


## DIABETES SUMMARY

## Statewide Characteristics

- In 2003, more than 1.6 million California adults age 18 and over ( $6.6 \%$ ) reported being diagnosed with diabetes (Exhibit 8).
- Almost half of the over 1.6 million California adults with diabetes were low-income (below $200 \%$ of the Federal Poverty Level) and over one-quarter of adults with diabetes had Medi-Cal (Exhibit 8).
- More than one in three adults with diabetes were over the age of 65 (Exhibit 8). While the risk of diabetes increases with age, nearly two-thirds of adults with diabetes were under the age of 65 .


## Racial and Ethnic Characteristics

- Among California adults with diabetes, the racial/ethnic distribution was $34.2 \%$ Latino, $1 \%$ American Indian/Alaska Native, 10.5\% Asian, 9.4\% African American, $42.8 \%$ white, and $2.2 \%$ other (Exhibit 7). Since this is the racial/ethnic composition of the population with diabetes, it cannot be used to make between group comparisons.
- In Los Angeles County the highest proportion of adults with diabetes were Latino (45.6\%) followed by white ( $30.1 \%$; Exhibit 7).
- The Greater Bay Area had the greatest proportion of Asian and African American adults with diabetes (Exhibit 7).


## County Specific Characteristics

- In 2003 the highest rate of adults over 18 with diabetes was found in Imperial County (10.9\%) followed by Madera County, Merced County, LA SPA South and Shasta County (Exhibit 8).
- In several areas in the state the majority of adults with diabetes were low-income. Three out of four adults with diabetes in Kings County and $70 \%$ of adults with diabetes in Fresno County and LA SPA Metro were low-income. Two-thirds of adults with diabetes in Imperial County, LA SPA South and Tulare County were also low-income (Exhibit 8).
- Almost half of adults with diabetes in Fresno and Imperial Counties had Medi-Cal.
- Among adults with diabetes in Marin, $82.2 \%$ were age 65 or over (Exhibit 8).

|  | EXHIBIT 7. RACIAL AND ETHNIC CHARACTERISTICS OF ADULTS AGE 18 AND OVER WITH DIABETES BY REGION, CALIFORNIA 2001 AND 2003 COMBINED |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS | E 18 AND OVER | H DIABETES |  |  |
| LOCATION | PERCENT OF ADULTS WITH DIABETES WHO WERE LATINO | PERCENT OF ADULTS WITH DIABETES WHO WERE AIAN | PERCENT OF ADULTS WITH DIABETES WHO WERE ASIAN | PERCENT OF ADULTS WITH DIABETES WHO WERE AFRICAN AMERICAN | PERCENT OF ADULTS WITH DIABETES WHO WERE WHITE | PERCENT OF ADULTS WITH DIABETES WHO WERE OTHER | TOTAL PERCENT |
| CALIFORNIA | 34.2 | 1.0 | 10.5 | 9.4 | 42.8 | 2.2 | 100 |
| NORTHERN/SIERRA | 11.6 | 4.8 | 2.9* | 1.3* | 76.0 | 3.5 | 100 |
| GREATER BAY AREA | 18.1 | 0.7* | 17.9 | 14.6 | 46.5 | 2.4 | 100 |
| SACRAMENTO | 17.8 | - | 12.8 | 12.9 | 52.0 | 3.5* | 99 |
| SAN JOAQUIN VALLEY | 44.2 | 2.6 | 3.6 | 6.1 | 41.8 | 1.9 | 100 |
| CENTRAL COAST | 35.9 | - | 6.4* | 4.0* | 51.9 | 1.7 | 100 |
| LOS ANGELES COUNTY | 45.6 | 0.6* | 10.6 | 11.9 | 30.1 | 1.4 | 100 |
| OTHER SOUTHERN CALIFORNIA COUNTIES | 34.8 | 0.9* | 9.7 | 6.1 | 45.8 | 2.8 | 100 |

* Unstable estimate. Dash (-) indicates the sample size is too small to provide an estimate.
Totals may not add to $100 \%$ due to rounding.

Confidence intervals and other supplemental materials are available at: http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html
Source: 2001 and 2003 California Health Interview Surveys

| EXHIBIT 8. LOW-INCOME, MEDI-CAL, AND AGE 65 AND OVER CHARACTERISTICS OF ADULTS WITH DIABETES BY COUNTY, CALIFORNIA 2003 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS AGE 18 AND OVER WITH DIABETES |  |  |
| LOCATION TOTAL | OTAL PERCENT OF ADULTS WITH DIABETES | TOTAL NUMBER OF ADULTS WITH DIABETES | PERCENT OF ADULTS WITH DIABETES WHO WERE LOW-INCOME (0-199\% FPL) | PERCENT OF ADULTS WITH DIABETES WHO HAD MEDI-CAL | PERCENT OF ADULTS WITH DIABETES WHO WERE AGE 65 AND OVER |
| CALIFORNIA | 6.6 | 1,678,000 | 45.6 | 26.6 | 37.0 |
| ALAMEDA | 5.1 | 57,000 | 37.1 | 23.6 | 35.0 |
| ALPINE, AMADOR, CALAVERAS, INYO, MARIPOSA, MONO, TUOLUMNE | 7.0 | 10,000 | 40.8 | 33.0* | 39.6 |
| BUTTE | 4.3 | 7,000 | 63.2 | 38.8 | 41.8 |
| COLUSA, GLENN, TEHAMA | 7.6 | 6,000 | 38.3 | 24.7* | 39.4 |
| CONTRA COSTA | 5.8 | 43,000 | 19.8 | 29.3* | 39.4 |
| DEL NORTE, HUMBOLDT | 6.0 | 7,000 | 56.6 | 41.1 | 53.5 |
| EL DORADO | 4.3 | 5,000 | 36.8 | 23.4* | 29.1* |
| FRESNO | 7.6 | 44,000 | 70.0 | 48.7 | 39.4 |
| IMPERIAL | 10.9 | 11,000 | 66.0 | 49.8 | 44.1 |
| KERN | 7.3 | 35,000 | 55.1 | 37.3 | 19.9* |
| KINGS | 8.1 | 7,000 | 74.9 | 36.9 | 26.0 |
| LAKE, MENDOCINO | 6.3 | 7,000 | 51.8 | 36.8 | 29.0* |
| LASSEN, MODOC, SISKIYOU, TRINITY | 6.7 | 5,000 | 37.4 | 18.8* | 35.3 |
| LOS ANGELES | 6.9 | 491,000 | 51.3 | 27.3 | 35.7 |
| LA SPA ANTELOPE VALLEY | EY 5.1 | 10,000 | 54.0 | 37.7 | 33.1 |
| LA SPA EAST | 8.3 | 74,000 | 48.2 | 21.2 | 34.5 |
| LA SPA METRO | 6.2 | 54,000 | 70.0 | 37.3 | 38.8 |
| LA SPA SAN FERNANDO | 7.2 | 107,000 | 44.6 | 26.6 | 40.8 |
| LA SPA SAN GABRIEL | 6.3 | 80,000 | 43.9 | 27.4 | 40.7 |
| LA SPA SOUTH | 9.6 | 53,000 | 66.4 | 41.9 | 22.0 |
| LA SPA SOUTH BAY | 7.2 | 87,000 | 49.0 | 20.5 | 30.8 |
| LA SPA WEST | 4.1 | 24,000 | 47.7 | 15.0* | 41.6 |
| MADERA | 9.8 | 9,000 | 41.9 | 32.9 | 42.1 |
| MARIN | $3.7 *$ | 7,000 | 41.7 | 18.8* | 82.2 |
| MERCED | 9.7 | 15,000 | 61.5 | 35.6 | 27.1 |
| MONTEREY, SAN BENITO | 6.2 | 20,000 | 44.5 | 19.7* | 36.5 |
| NAPA | 5.1 | 5,000 | 10.9 | - | 24.0* |
| NEVADA, PLUMAS, SIERRA | 3.9 | 4,000 | 53.6 | 16.9* | 66.0 |


| EXHIBIT 8. LOW-INCOME, MEDI-CAL, AND AGE 65 AND OVER CHARACTERISTICS OF ADULTS WITH DIABETES BY COUNTY, CALIFORNIA 2003 (CONTINUED) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS AGE 18 AND OVER WITH DIABETES |  |  |
| LOCATION | TOTAL PERCENT OF ADULTS WITH DIABETES | TOTAL NUMBER OF ADULTS WITH DIABETES | PERCENT OF ADULTS WITH DIABETES WHO WERE LOW-INCOME (0-199\% FPL) | PERCENT OF ADULTS WITH DIABETES WHO HAD MEDI-CAL | PERCENT OF ADULTS WITH DIABETES WHO WERE <br> AGE 65 AND OVER |
| CALIFORNIA | 6.6 | 1,678,000 | 45.6 | 26.6 | 37.0 |
| ORANGE | 6.6 | 143,000 | 43.1 | 23.6 | 38.2 |
| PLACER | 5.5 | 12,000 | 24.6 | 21.2* | 49.3 |
| RIVERSIDE | 6.1 | 74,000 | 41.7 | 23.8 | 50.7 |
| SACRAMENTO | 8.2 | 79,000 | 41.0 | 27.5 | 33.0 |
| SAN BERNARDINO | 8.5 | 107,000 | 48.7 | 35.4 | 32.8 |
| SAN DIEGO | 6.0 | 130,000 | 42.3 | 18.3 | 30.0 |
| SAN FRANCISCO | 6.5 | 42,000 | 33.9 | 25.6 | 50.8 |
| SAN JOAQUIN | 7.6 | 32,000 | 49.3 | 29.4* | 26.5 |
| SAN LUIS OBISPO | 4.2 | 8,000 | 21.1 | 18.4* | 59.8 |
| SAN MATEO | 5.4 | 29,000 | 43.9 | 32.3* | 44.7 |
| SANTA BARBARA | 5.4 | 16,000 | 39.5 | 28.6* | 47.4 |
| SANTA CLARA | 5.5 | 70,000 | 35.3 | 9.5* | 33.9 |
| SANTA CRUZ | 4.1 | 8,000 | 34.6 | 17.2* | 40.4* |
| SHASTA | 9.0 | 12,000 | 44.1 | 34.7 | 52.4 |
| SOLANO | 6.5 | 19,000 | 33.6 | 22.7* | 51.1 |
| SONOMA | 5.2 | 18,000 | 42.2 | 28.3* | 44.1 |
| STANISLAUS | 5.9 | 20,000 | 37.4 | 20.0* | 18.2* |
| SUTTER, YUBA | 8.7 | 9,000 | 46.2 | 33.7 | 38.3 |
| TULARE | 8.7 | 23,000 | 66.0 | 34.7 | 32.6 |
| VENTURA | 5.1 | 29,000 | 37.1 | 20.8* | 52.5 |
| YOLO | 6.2 | 8,000 | 45.6 | 10.1* | 38.0 |

* Unstable estimate. Dash (-) indicates the sample size is too small to provide any Source: 2003 California Health Interview Survey estimate.
Confidence intervals and other supplemental materials are available at:
http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html


## FAIR OR POOR HEALTH STATUS SUMMARY

## Statewide Characteristics

- In 2003, one-fifth of adults over 18 in California reported that their health was fair or poor (Exhibit 10).
- Three out of five of the over 5.2 million adults with fair or poor health status were low-income (below $200 \%$ of the Federal Poverty Level; Exhibit 10).
- Almost one-fourth of the state's adults with fair or poor health status were age 65 or over (Exhibit 10).


## Racial and Ethnic Characteristics

- Among adults age 18 and over who reported fair or poor health status, the racial/ethnic distribution was 46.1\% Latino, $0.8 \%$ American Indian/Alaska Native, 11.4\% Asian, 7\% African American, 32.8\% white, and $1.9 \%$ other (Exhibit 9). Since this is the racial/ethnic composition of the population with fair or poor health status, it cannot be used to make between group comparisons.
- In the San Joaquin Valley, Central Coast and Los Angeles County over half of adults with fair or poor health status were Latino (Exhibit 9).


## County Specific Characteristics

- In 2003, almost eight out of ten adults in LA SPA Metro and three out of four adults in LA SPA South with fair or poor health status were low-income-the highest proportions in the state (Exhibit 10).
- Almost half of adults with fair or poor health status in Imperial County had Medi-Cal (Exhibit 10).
- $44.4 \%$ of adults with fair or poor health status in Marin were over the age of 65-the highest proportion in the state. The lowest proportion was found in LA SPA South ( $13.5 \%$; Exhibit 10).

|  | EXHIBIT 9. RACIAL AND ETHNIC CHARACTERISTICS OF ADULTS AGE 18 AND OVER WITH FAIR OR POOR HEALTH STATUS BY REGION, CALIFORNIA 2001 AND 2003 COMBINED |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS A | GE 18 AND OVER WI | TH FAIR OR POOR H | EALTH STATUS |  |
| LOCATION | PERCENT OF ADULTS W/FAIR OR POOR HEALTH STATUS WHO WERE LATINO | PERCENT OF ADULTS W/FAIR OR POOR HEALTH STATUS WHO WERE AIAN | PERCENT OF ADULTS W/FAIR OR POOR HEALTH STATUS WHO WERE ASIAN | PERCENT OF ADULTS W/FAIR OR POOR HEALTH STATUS WHO WERE AFRICAN AMERICAN | PERCENT OF ADULTS W/FAIR OR POOR HEALTH STATUS WHO WERE WHITE | PERCENT OF ADULTS W/FAIR OR POOR HEALTH STATUS WHO WERE OTHER | TOTAL PERCENT |
| CALIFORNIA | 46.1 | 0.8 | 11.4 | 7.0 | 32.8 | 1.9 | 100 |
| NORTHERN/SIERRA | 14.7 | 2.7 | 1.4 | 1.4* | 76.6 | 3.2 | 100 |
| GREATER BAY AREA | 33.3 | 0.4* | 22.4 | 10.4 | 31.5 | 2.0 | 100 |
| SACRAMENTO | 25.1 | 1.5* | 12.1 | 6.8 | 50.7 | 3.8 | 100 |
| SAN JOAQUIN VALLEY | 51.3 | 1.8 | 5.0 | 4.8 | 35.7 | 1.3 | 100 |
| CENTRAL COAST | 54.1 | 1.0 | 4.4 | 2.1 | 37.0 | 1.3 | 100 |
| LOS ANGELES COUNTY | 56.1 | 0.3 | 11.0 | 9.5 | 21.7 | 1.4 | 100 |
| OTHER SOUTHERN CALIFORNIA COUNTIES | 46.5 | 0.8 | 10.2 | 4.5 | 35.6 | 2.5 | 100 |

* Unstable estimate.

Confidence intervals and other supplemental materials are available at: http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.htm/

| EXHIBIT 10. LOW-INCOME, MEDI-CAL, AND AGE 65 AND OVER CHARACTERISTICS OF ADULTS WITH FAIR OR POOR HEALTH STATUS BY COUNTY, CALIFORNIA 2003 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS AGE 18 AND OVER WITH FAIR OR POOR HEALTH STATUS |  |  |
| LOCATION | TAL PERCENT OF ADULTS WITH FAIR/POOR HEALTH STATUS | TOTAL NUMBER OF ADULTS WITH FAIR/POOR HEALTH STATUS | PERCENT OF <br> ADULTS WITH FAIR/POOR HEALTH STATUS WHO WERE LOW-INCOME (0-199\% FPL) | PERCENT OF ADULTS WITH FAIR/POOR HEALTH STATUS WHO HAD MEDI-CAL | PERCENT OF ADULTS WITH FAIR/POOR HEALTH STATUS WHO WERE AGE 65 AND OVER |
| CALIFORNIA | 20.5 | 5,252,000 | 60.3 | 28.6 | 24.5 |
| ALAMEDA | 17.8 | 197,000 | 53.3 | 25.1 | 24.8 |
| ALPINE, AMADOR, CALAVERAS, INYO, MARIPOSA, MONO, TUOLUMNE | 22.2 | 31,000 | 48.7 | 23.5 | 35.7 |
| BUTTE | 19.2 | 30,000 | 63.8 | 39.1 | 31.9 |
| COLUSA, GLENN, TEHAMA | 28.2 | 21,000 | 58.3 | 27.2 | 28.2 |
| CONTRA COSTA | 16.8 | 123,000 | 43.3 | 36.3 | 26.6 |
| DEL NORTE, HUMBOLDT | 18.8 | 21,000 | 66.1 | 42.3 | 29.7 |
| EL DORADO | 14.1 | 18,000 | 33.2 | 11.3* | 21.8 |
| FRESNO | 27.4 | 159,000 | 73.4 | 39.4 | 18.7 |
| IMPERIAL | 30.3 | 31,000 | 72.5 | 48.5 | 25.9 |
| KERN | 27.8 | 132,000 | 63.2 | 36.4 | 22.3 |
| KINGS | 27.1 | 23,000 | 66.5 | 41.2 | 21.3 |
| LAKE, MENDOCINO | 22.9 | 26,000 | 66.1 | 37.2 | 23.5 |
| LASSEN, MODOC, SISKIYOU, TRINITY | 22.0 | 15,000 | 64.2 | 34.6 | 36.7 |
| LOS ANGELES | 23.6 | 1,680,000 | 65.7 | 29.4 | 22.6 |
| LA SPA ANTELOPE VALLEY | Y 19.5 | 40,000 | 62.0 | 39.0 | 23.8 |
| LA SPA EAST | 23.6 | 212,000 | 60.9 | 22.4 | 25.0 |
| LA SPA METRO | 27.8 | 243,000 | 79.1 | 34.5 | 21.7 |
| LA SPA SAN FERNANDO | 21.3 | 319,000 | 63.3 | 30.8 | 26.2 |
| LA SPA SAN GABRIEL | 24.9 | 318,000 | 62.6 | 29.3 | 25.9 |
| LA SPA SOUTH | 35.0 | 193,000 | 76.3 | 38.5 | 13.5 |
| LA SPA SOUTH BAY | 22.7 | 277,000 | 62.2 | 24.9 | 21.1 |
| LA SPA WEST | 13.2 | 78,000 | 47.3 | 16.8 | 18.9 |
| MADERA | 27.7 | 24,000 | 59.6 | 33.2 | 25.4 |
| MARIN | 9.9 | 19,000 | 32.2 | 21.2* | 44.4 |
| MERCED | 27.3 | 42,000 | 67.4 | 29.6 | 23.1 |
| MONTEREY, SAN BENITO | 23.9 | 78,000 | 67.6 | 29.3 | 19.3 |
| NAPA | 16.2 | 15,000 | 53.2 | 11.6* | 21.4 |
| NEVADA, PLUMAS, SIERRA | 12.9 | 12,000 | 59.4 | 27.6 | 34.6 |


| EXHIBIT 10. LOW-INCOME, MEDI-CAL, AND AGE 65 AND OVER CHARACTERISTICS OF ADULTS WITH FAIR OR POOR HEALTH STATUS BY COUNTY, CALIFORNIA 2003 (CONTINUED) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS AC | 18 AND OVER WITH FAIR O | OOR HEALTH STATUS |
| LOCATION | total percent of ADULTS WITH FAIR/POOR HEALTH STATUS | TOTAL NUMBER OF ADULTS WITH FAIR/POOR HEALTH STATUS | PERCENT OF ADULTS WITH FAIR/POOR health status who WERE LOW-INCOME (0-199\% FPL) | PERCENT OF ADULTS WITH FAIR/POOR HEALTH STATUS WHO HAD MEDI-CAL | PERCENT OF ADULTS WITH FAIR/POOR HEALTH STATUS WHO WERE AGE 65 AND OVER |
| CALIFORNIA | 20.5 | 5,252,000 | 60.3 | 28.6 | 24.5 |
| ORANGE | 20.5 | 443,000 | 60.4 | 20.4 | 19.3 |
| PLACER | 11.4 | 24,000 | 41.3 | 31.8 | 42.6 |
| RIVERSIDE | 21.0 | 254,000 | 56.0 | 23.9 | 26.4 |
| SACRAMENTO | 15.5 | 148,000 | 53.7 | 36.0 | 26.3 |
| SAN BERNARDINO | 22.6 | 284,000 | 64.0 | 33.7 | 23.8 |
| SAN DIEGO | 15.4 | 335,000 | 55.9 | 25.0 | 28.3 |
| SAN FRANCISCO | 17.2 | 112,000 | 51.4 | 31.7 | 40.6 |
| SAN JOAQUIN | 19.9 | 84,000 | 59.9 | 23.4 | 23.9 |
| SAN LUIS OBISPO | 15.9 | 30,000 | 53.2 | 24.2 | 29.2 |
| SAN MATEO | 18.2 | 98,000 | 50.0 | 24.0 | 23.4 |
| SANTA BARBARA | 20.5 | 60,000 | 56.8 | 27.1 | 21.8 |
| SANTA CLARA | 18.4 | 231,000 | 47.7 | 22.0 | 23.7 |
| SANTA CRUZ | 18.7 | 36,000 | 48.3 | 27.3 | 19.2 |
| SHASTA | 21.4 | 28,000 | 58.9 | 39.3 | 36.3 |
| SOLANO | 20.3 | 58,000 | 48.0 | 26.2 | 31.1 |
| SONOMA | 13.7 | 48,000 | 56.4 | 27.6 | 38.9 |
| STANISLAUS | 19.4 | 65,000 | 69.5 | 33.9 | 22.6 |
| SUTTER, YUBA | 24.6 | 25,000 | 51.3 | 35.5 | 23.2 |
| TULARE | 26.0 | 67,000 | 71.8 | 36.7 | 24.0 |
| VENTURA | 18.3 | 104,000 | 63.2 | 22.7 | 29.4 |
| YOLO | 15.0 | 20,000 | 56.8 | 19.0 | 29.6 |

* Unstable estimate. Dash (-) indicates the sample size is too small to provide any Source: 2003 California Health Interview Survey estimate.
Confidence intervals and other supplemental materials are available at:
http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html


## ASTHMA AMONG ADULTS SUMMARY

## Statewide Characteristics

- In 2001-03, $11.8 \%$ of California adults reported ever being diagnosed with asthma (Exhibit 12).
- Three out of ten of the over three million adults ever diagnosed with asthma were low-income (below $200 \%$ of the Federal Poverty Level; Exhibit 12).
- Elderly adults age 65 or over accounted for only $13 \%$ of adults ever diagnosed with asthma (Exhibit 12).


## Racial and Ethnic Characteristics

- Among adults ever diagnosed with asthma in 200103, the racial/ethnic distribution was $21.9 \%$ Latino, 1.3\% American Indian/Alaska Native, 8.9\% Asian, $56.1 \%$ white, and $3.5 \%$ other (Exhibit 11). Since this is the racial/ethnic composition of the adult population with asthma, it cannot be used to make between group comparisons.
- The Northern/Sierra and San Joaquin Valley regions had over twice the statewide proportion of adults with asthma who were American Indian/Alaska Native (Exhibit 11).


## County Specific Characteristics

- The rates of California adults ever diagnosed with asthma in 2001-03 ranged from 9.3 \% in LA SPA Metro to $18.3 \%$ in Solano County (Exhibit 12).
- Over half of adults ever diagnosed with asthma in the Colusa/Glenn, Del Norte/Humboldt, Lassen/Modoc county groups, Kings County and LA SPA South had low-incomes (Exhibit 12).
- Nearly one-third of adults ever diagnosed with asthma had Medi-Cal in Imperial County and Merced County (Exhibit 12).
- Approximately one out of five adults ever diagnosed with asthma in Imperial County, the Nevada/Plumas county group and Shasta County were elderly (Exhibit 12).

| EXHIBIT 11. RACIAL AND ETHNIC CHARACTERISTICS OF ADULTS AGE 18 AND OVER EVER DIAGNOSED WITH ASTHMA BY REGION, CALIFORNIA 2001 AND 2003 COMBINED |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ADULTS AGE 18 AND OVER EVER DIAGNOSED WITH ASTHMA |  |  |  |  |  |  |
| LOCATION | PERCENT OF ADULTS WITH ASTHMA WHO WERE LATINO | PERCENT OF ADULTS WITH ASTHMA WHO WERE AIAN | PERCENT OF ADULTS WITH ASTHMA WHO WERE ASIAN | PERCENT OF ADULTS WITH ASTHMA WHO WERE AFRICAN AMERICAN | PERCENT OF ADULTS WITH ASTHMA WHO WERE WHITE | PERCENT OF ADULTS WITH ASTHMA WHO WERE OTHER | TOTAL PERCENT |
| CALIFORNIA | 21.9 | 1.3 | 8.9 | 8.3 | 56.1 | 3.5 | 100 |
| NORTHERN/SIERRA | 6.3 | 4.1 | 1.2* | 1.5* | 83.0 | 3.9 | 100 |
| GREATER BAY AREA | 16.8 | 1.2 | 14.1 | 9.0 | 54.7 | 4.1 | 100 |
| SACRAMENTO | 11.2 | 1.5* | 10.7 | 9.4 | 61.8 | 5.4 | 100 |
| SAN JOAQUIN VALLEY | 27.2 | 3.0 | 3.7 | 6.3 | 57.3 | 2.5 | 100 |
| CENTRAL COAST | 22.0 | 0.3* | 4.9 | 4.4 | 65.7 | 2.6 | 100 |
| LOS ANGELES COUNTY | 29.1 | 0.5* | 10.8 | 13.5 | 43.0 | 3.1 | 100 |
| OTHER SOUTHERN CALIFORNIA COUNTIES | 22.7 | 1.0 | 6.4 | 5.5 | 61.0 | 3.4 | 100 |

* Unstable estimate.

Source: 2001 and 2003 California Health Interview Surveys
Confidence intervals and other supplemental materials are available at:
http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html


| EXHIBIT 12. LOW-INCOME, MEDI-CAL, AND AGE 65 AND OVER CHARACTERISTICS OF ADULTS EVER DIAGNOSED WITH ASTHMA BY COUNTY, CALIFORNIA 2001 AND 2003 COMBINED (CONTINUED) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ADULTS AGE 18 AND OVER EVER DIAGNOSED WITH ASTHMA |  |  |
| LOCATION | TOTAL PERCENT OF ADULTS EVER DIAGNOSED WITH ASTHMA | TOTAL NUMBER OF ADULTS EVER DIAGNOSED WITH ASTHMA | PERCENT OF ADULTS EVER DIAGNOSED WITH ASTHMA WHO WERE LOW-INCOME (0-199\% FPL) | PERCENT OF ADULTS 18-64 EVER DIAGNOSED WITH ASTHMA WHO HAD MEDI-CAL | PERCENT OF ADULTS EVER DIAGNOSED WITH ASTHMA WHO WERE AGE 65 AND OVER |
| CALIFORNIA | 11.8 | 3,020,446 | 31.4 | 13.2 | 13.0 |
| ORANGE | 9.5 | 206,000 | 22.5 | 7.2 | 11.2 |
| PLACER | 14.8 | 31,000 | 22.1 | 8.9* | 10.8 |
| RIVERSIDE | 10.4 | 126,000 | 37.6 | 15.4 | 14.0 |
| SACRAMENTO | 14.5 | 138,000 | 27.4 | 12.5 | 14.0 |
| SAN BERNARDINO | 13.6 | 171,000 | 43.0 | 20.7 | 8.1 |
| SAN DIEGO | 10.5 | 228,000 | 27.0 | 9.9 | 13.1 |
| SAN FRANCISCO | 10.6 | 69,000 | 26.8 | 7.4 | 16.1 |
| SAN JOAQUIN | 14.0 | 59,000 | 39.5 | 19.5 | 11.4 |
| SAN LUIS OBISPO | 14.5 | 27,000 | 30.9 | 7.8 | 13.4 |
| SAN MATEO | 10.2 | 55,000 | 7.3* | 2.4* | 13.8 |
| SANTA BARBARA | 11.2 | 33,000 | 31.5 | 7.7* | 16.6 |
| SANTA CLARA | 11.9 | 149,000 | 19.5 | 6.2 | 10.4 |
| SANTA CRUZ | 14.3 | 27,000 | 30.6 | 11.0* | 10.8 |
| SHASTA | 15.5 | 20,000 | 47.5 | 22.1 | 21.1 |
| SOLANO | 18.3 | 52,000 | 30.8 | 12.1 | 13.7 |
| SONOMA | 13.1 | 46,000 | 19.1 | 6.3* | 13.2 |
| STANISLAUS | 14.0 | 47,000 | 43.4 | 23.4 | 11.9 |
| SUTTER, YUBA | 13.1 | 13,000 | 45.9 | 19.3 | 15.6 |
| TULARE | 12.0 | 31,000 | 45.1 | 22.4 | 10.4 |
| VENTURA | 12.1 | 69,000 | 30.6 | 11.8* | 13.8 |
| YOLO | 12.4 | 16,000 | 26.1 | 6.8* | 13.6 |

* Unstable estimate. Dash (-) indicates the sample size is too small to provide any Source: 2003 California Health Interview Survey estimate.
Confidence intervals and other supplemental materials are available at:
http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html


## ASTHMA AMONG CHILDREN SUMMARY

## Statewide Characteristics

- In 2001-03, over 1.3 million children ages 1-17 ( $14.7 \%$ ) reported ever being diagnosed with asthma (Exhibit 14).
- Four out of ten children with asthma lived in lowincome families (below 200\% of the Federal Poverty Level; Exhibit 14).
- Among children with asthma, $15.5 \%$ lived in households with at least one limited English proficient parent (Exhibit 14).
- Almost one-quarter of children with asthma had Medi-Cal (Exhibit 14).


## Racial and Ethnic Characteristics

- Among children who reported ever being diagnosed with asthma in 2001-03, the racial/ethnic distribution was 39.4\% Latino, 1.2\% American Indian/Alaska Native, $7.9 \%$ Asian, $11.5 \%$ African American, 35.2\% white, and $4.8 \%$ other (Exhibit 13). Since this information is on the characteristics of the population of children with asthma, it cannot be used to compare risk of asthma for different racial/ethnic groups.
- The highest proportion of children with asthma who were Latino was found in Los Angeles County-49.1\% (Exhibit 13). In the Northern/Sierra region, 8.5\% of children with asthma were American Indian/Alaska Native-seven times the statewide proportion (Exhibit 13). The Sacramento region had the highest proportion of children with asthma who were African American (18.7\%; Exhibit 13). These rates provide information on the characteristics of children with asthma in each region and not on the risk of hypertension for different racial/ethnic groups.


## County Specific Characteristics

- In 2001-03, about one-fifth of children had asthma in Kings, Sacramento, San Joaquin and Solano Counties-the highest prevalence in the state (Exhibit 14).
- About two-thirds of children with asthma in the Colusa/Glenn county group, Kings County and Tulare County were low-income (Exhibit 14).
- Over half of children ever diagnosed with asthma in LA SPA Metro lived in households with at least one limited English proficient (LEP) parent. One in three children ever diagnosed with asthma lived with at least one LEP parent in the Monterey/San Benito county group and Santa Barbara County (Exhibit 14).

|  |  |  | CHILDRE | AGES 1-17 EVER DI | AGNOSED WITH A | HMA |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LOCATION | PERCENT OF CHILDREN WITH ASTHMA who were LATINO | PERCENT OF CHILDREN WITH ASTHMA WHO WERE AIAN | PERCENT OF CHILDREN WITH ASTHMA WHO WERE ASIAN | PERCENT OF CHILDREN WITH ASTHMA WHO WERE AFRICAN AMERICAN | PERCENT OF CHILDREN WITH ASTHMA WHO WERE WHITE | PERCENT OF CHILDREN WITH ASTHMA WHO WERE OTHER | TOTAL PERCENT |
| CALIFORNIA | 39.4 | 1.2 | 7.9 | 11.5 | 35.2 | 4.8 | 100 |
| NORTHERN/SIERRA | 14.7 | 8.5 | - | 1.2* | 68.2 | 6.9 | 100 |
| GREATER BAY AREA | 27.4 | - | 16.9 | 9.4 | 39.1 | 7.0 | 100 |
| SACRAMENTO | 21.9 | 1.3* | 3.9* | 18.7 | 49.4 | 4.9 | 100 |
| SAN JOAQUIN VALLEY | 46.2 | 3.8* | 2.3* | 7.4 | 35.9 | 4.4 | 100 |
| CENTRAL COAST | 47.3 | 1.8* | 3.3* | - | 40.6 | 4.8 | 98 |
| LOS ANGELES COUNTY | 49.1 | - | 8.7 | 17.3 | 21.3 | 3.5 | 100 |
| OTHER SOUTHERN CALIFORNIA COUNTIES | 40.2 | 0.8* | 6.6 | 10.6 | 37.6 | 4.3 | 100 |

* Unstable estimate. Dash (-) indicates the sample size is too small to provide any estimate.
Totals may not add to $100 \%$ due to rounding.

Confidence intervals and other supplemental materials are available at: http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html
Source: 2001 and 2003 California Health Interview Surveys

EXHIBIT 14. LOW-INCOME, LIMITED ENGLISH PROFICIENT PARENTS, AND MEDI-CAL CHARACTERISTICS OF CHILDREN AGES 1-17 EVER DIAGNOSED WITH ASTHMA BY COUNTY, CALIFORNIA 2001 AND 2003 COMBINED


CALAVERAS, INYO,
MARIPOSA. MONO,
TUOLUMNE

| BUTTE | 18.8 | 8,000 | 55.7 | - | 32.0 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| COLUSA, GLENN, TEHAMA | 14.7 | 4,000 | 66.9 | 19.8* | 46.2 |
| CONTRA COSTA | 17.2 | 43,000 | 29.3 | - | 19.0 |
| DEL NORTE, HUMBOLDT | 14.3 | 5,000 | 40.5 | - | 21.3* |
| EL DORADO | 15.6 | 6,000 | 20.8 | - | 11.0* |
| FRESNO | 18.1 | 44,000 | 42.9 | 14.7 | 33.1 |
| IMPERIAL | 17.7 | 8,000 | 44.5 | 21.9 | 34.1 |
| KERN | 16.2 | 33,000 | 39.2 | - | 33.7 |
| KINGS | 20.8 | 8,000 | 65.7 | 10.9* | 38.8 |
| LAKE, MENDOCINO | 11.2 | 4,000 | 62.4 | - | 45.3 |
| LASSEN, MODOC, SISKIYOU, TRINITY | 11.8 | 2,000 | 56.8 | - | 22.7* |
| LOS ANGELES | 13.7 | 357,000 | 49.4 | 21.4 | 30.2 |
| LA SPA ANTELOPE VALLEY | 17.5 | 18,000 | 50.3 | $6.4 *$ | 32.5 |
| LA SPA EAST | 14.1 | 58,000 | 50.5 | 21.8 | 24.5 |
| LA SPA METRO | 11.4 | 29,000 | 61.4 | 52.3 | 52.3 |
| LA SPA SAN FERNANDO | 12.7 | 73,000 | 39.6 | 20.7 | 21.6 |
| LA SPA SAN GABRIEL | 15.1 | 71,000 | 52.5 | 19.3 | 25.7 |
| LA SPA SOUTH | 12.3 | 33,000 | 71.9 | 19.4* | 63.2 |
| LA SPA SOUTH BAY | 14.4 | 59,000 | 40.4 | 19.6 | 20.4 |
| LA SPA WEST | 15.5 | 18,000 | 41.4 | 8.8* | 30.0 |
| MADERA | 14.1 | 5,000 | 55.5 | 29.7 | 39.6 |
| MARIN | 13.2 | 6,000 | 35.0 | - | - |
| MERCED | 17.8 | 13,000 | 51.2 | 15.8* | 26.7 |
| MONTEREY, SAN BENITO | 14.2 | 18,000 | 32.9 | 34.4 | 13.9* |
| NAPA | 15.9 | 5,000 | 39.9 | - | 15.2* |
| NEVADA, PLUMAS, SIERRA | 14.8 | 4,000 | 34.7 | - | 11.8* |


|  | EXHIBIT 14. LOW-INCOME, LIMITED ENGLISH PROFICIENT PARENTS, AND MEDI-CAL CHARACTERISTICS OF |
| :--- | :---: | :---: | :---: | :---: |
|  | CHILDREN AGES 1-17 EVER DIAGNOSED WITH ASTHMA BY COUNTY, CALIFORNIA 2001 AND 2003 COMBINED (CONTINUED) |

* Unstable estimate. Dash (-) indicates the sample size is too small to provide any Source: 2003 California Health Interview Survey estimate.
Confidence intervals and other supplemental materials are available at:
http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html


## Appendix

health. This index is presented in Exhibit 1 and on a map available online at:
www.healthpolicy.ucla.edu/chronic_cond_supp_05.html.

- The Percentage of Adults with One or More Problems Accessing Health Services reports the proportion of adults who experienced at least one of the following: a delay accessing health services in the past year; and/or having no usual source of care (Exhibit 1, Map 2).
- The Percentage of Adults with One or More Barriers to Health Care Access reports the proportion of adults who reported at least one of the following: being uninsured anytime in the past year; limited English proficiency; and/or having a low-income (Exhibit 1, Map 3).
- The Composite of Chronic Conditions and Access Indicators is a seven indicator summary index of the five chronic conditions among adults, problems accessing health services, and barriers to health care access. It tallies the number of conditions and indicators that fall into the best two and the worst two quintiles in each county and Los Angeles Service Planning Area (Exhibit 2).

The rates presented in each summary index listed above were ranked from lowest to highest. Relative rankings were assigned by dividing the data into five quintiles with roughly the same number of counties per group. Group one represents counties with the lowest (best) prevalence rates and group five represents counties with the highest (worst) prevalence rates.

## Health Variables

Chronic conditions: For each of the following chronic conditions the respondent was asked whether a doctor has ever told them that they have had the particular health condition: heart disease, hypertension, diabetes
and asthma. The fair or poor health status variable combines the worst two responses to the question "Would you say that in general your health is excellent, very good, good, fair, or poor?"

## Demographic Variables

Race/Ethnicity: To facilitate using this data with available county demographic data, California Department of Finance (DOF) race categories were used to generate race data. Due to small sample sizes for some race groups in some regions, CHIS 2001 and CHIS 2003 combined data were used. The Non-Latino Other single race and Non-Latino Two or more races were combined in this report into the "Other" category.

Low-Income: Low-income is defined as having a family household income in the previous year that is below $200 \%$ of the Federal Poverty Level (FPL). In 2002 this was $\$ 30,040$ for a family of three.

Insurance: Medi-Cal: Includes respondents who reported that they had Medi-Cal coverage during the past year. Uninsured: The "uninsured anytime in the past year" variable was used in the one or more barriers to health care access indicator and each uninsured analysis presented online.

Limited English Proficiency (LEP): Respondents who spoke a language other than English at home were asked whether they speak English very well, well, not well, or not at all. Those who responded "not well or not at all" were classified as being limited English proficient. This variable was used in the one or more barriers to health care access indicator and each LEP analysis presented online.

## Supressed Data

A dash denotes that data are not presented when there are fewer than five respondents for any cell.

An asterisk denotes an unstable (i.e. unreliable) estimate. The rates presented in this report are estimates based on a sample of California respondents. Each estimate has a level of error associated with it and a range in which the true estimate falls. The range, or $95 \%$ confidence interval, for the estimate is a statistic that approximates the point estimates that would be obtained 95 out of 100 times if the same survey were repeated with a new sample in the same population. An unstable estimate exceeds the generally acceptable amount of variation (30\%) as measured by the coefficient of variation. Confidence intervals for the data in this report are available on-line at: http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html.

## AUTHOR INFORMATION

Mona Jhawar, MPH, is a Research Associate at the UCLA Center for Health Policy Research. Steven P. Wallace, PhD, is Associate Director of the UCLA Center for Health Policy Research and Professor at the UCLA School of Public Health.

## ACKNOWLEDGEMENTS

The California HealthCare Foundation funded the analysis and publication of this report. The authors thank Y. Jenny Chia, Yii-Chieh Huang, and Yan Xiong for their statistical support. The authors also appreciate the valuable contributions of reviewers Veenu Aulakh, Andrew Bindman, Carolyn Mendez-Luck and Ying Ying Meng.

Sheri Penney of Penney Layne Productions provided editing and production services and Donna Beilock of Ikkanda Design Group provided design and production assistance.

HealthCare
FOUNDATION
The California HealthCare Foundation
476 Ninth Street
Oakland, CA 94607
www.chcf.org

UCLA Center for Health Policy Research
10911 Weyburn Avenue, Suite 300
Los Angeles, CA 90024
www. healthpolicy.ucla.edu


[^0]:    1

[^1]:    4 California Health Interview Survey, UCLA Center for Health Policy Research. CHIS 2001. http://www.chis.ucla.edu
    5
    6 California Health Interview Survey, UCLA Center for Health Policy Research. CHIS 2003. http://www.chis.ucla.edu

[^2]:    * Unstable estimate. Dash (-) indicates the sample size is too small to provide any Source: 2003 California Health Interview Survey estimate.
    Confidence intervals and other supplemental materials are available at:
    http://www.healthpolicy.ucla.edu/chronic_cond_supp_05.html

