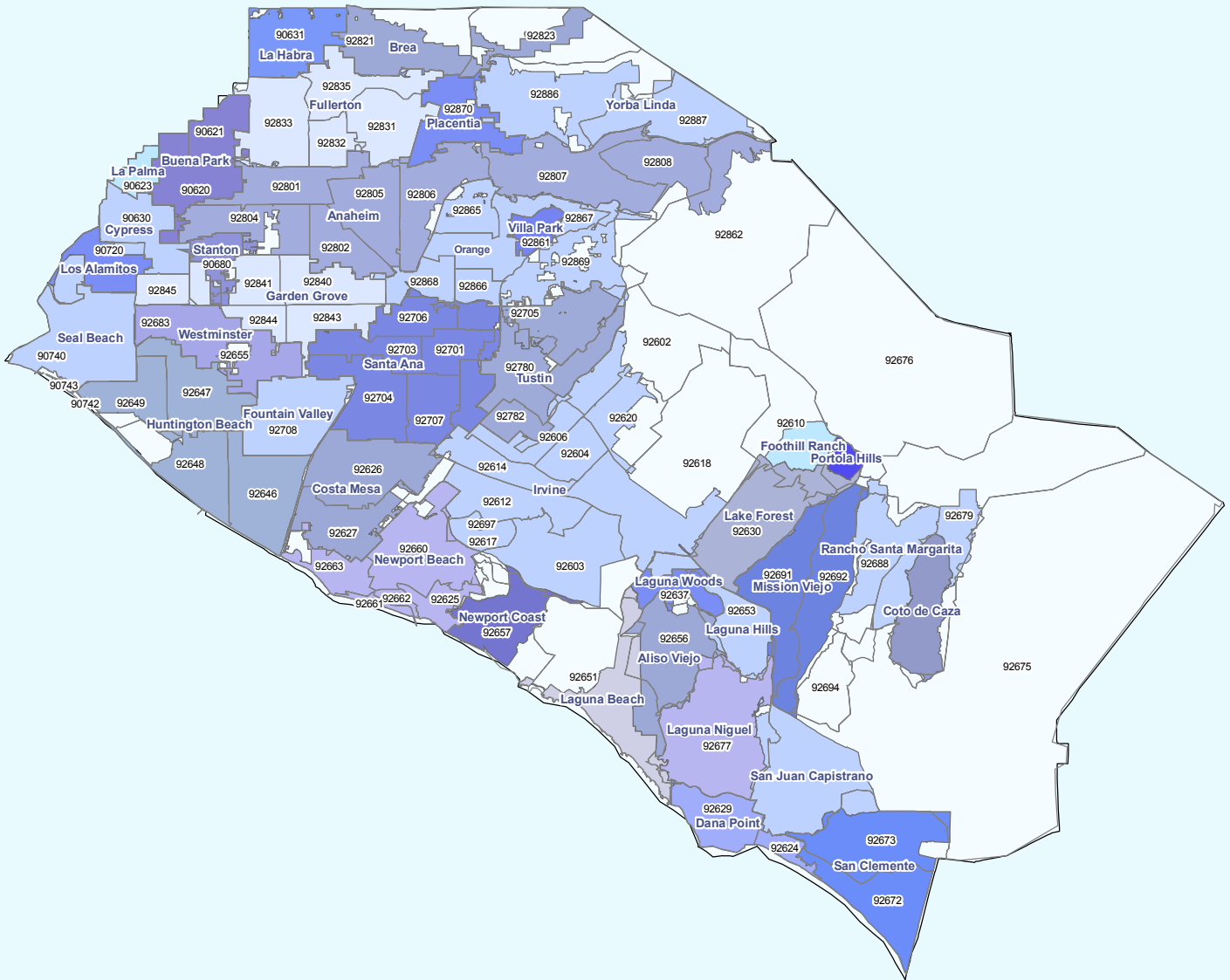


ORANGE COUNTY HEALTH INDICATORS

A Geographic Profile



County of Orange
HEALTH CARE AGENCY
Office of Quality Management
Research and Planning
2008



Excellence
Integrity
Service

COUNTY OF ORANGE HEALTH CARE AGENCY

OFFICE OF THE DIRECTOR

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October 23, 2008

Dear Reader,

We are pleased to present the *2008 Orange County Health Indicators – A Geographic Profile*. This report is produced every three years to highlight key health indicators such as mortality, morbidity, births, and hospitalizations. We use maps of various health indicators at the ZIP code level of the county to better convey geographic distribution and to identify areas of possible concern.

Because demographic and socioeconomic factors often influence health and healthcare utilization, the first two sections of the report cover the **Demographic Profile** (Section 1) and **Socioeconomic Profile** (Section 2) of Orange County. For example, Section 2 includes information and maps presenting the geographic distribution of those residents eligible for Food Stamps, Medi-Cal, and the Medical Services Initiative.

Section 3, **Hospitals and Hospitalization** provides an overview of the 320,280 discharges in 2006 from each of the 33 short stay hospitals in Orange County using variables such as patient demographics, reason for hospitalization, charges, and length of stay. The mean length of stay was 5.3 days and charges averaged about \$12,000 per day for all diagnoses. Total hospital charges in 2006 were \$10.6 billion, a 90% increase compared to the year 2000.

Morbidity Indicators presented in Section 4 cover several key communicable diseases such as HIV/AIDS, Hepatitis and Tuberculosis that are reportable and surveilled at local, state and national levels to ensure the health and safety of the public. For example, males and African Americans tend to have much higher rates of HIV/AIDS infection. Chlamydia, tends to be more prevalent in Hispanics, while Tuberculosis and Hepatitis B are higher in Asian/Pacific Islanders. Specific geographic regions of the county tend to have higher rates of certain diseases which should help guide prevention and treatment efforts.

Mortality Indicators are covered in Section 5 with a focus on the geographic distribution of the 16,804 annual deaths, as well as the leading causes of death in Orange County. Because mortality data are presented elsewhere in great detail, we focus primarily on the most common causes of death, mapped by age group and gender.

Section 6 is a new section this year, and presents **Hospital Discharges** framed in terms of the leading causes of hospitalizations and mapped by the patient's ZIP code of residence. This is in contrast to Section 3 that is presented for each hospital's discharges. Over half of all hospitalizations were to females (62%, n=157,148), a majority of which were related to pregnancy, childbirth, and the puerperium. Males were most often hospitalized for diseases of the heart and digestive system. Seniors, 65 years and older, had the highest rate of hospitalization – almost 4 times more often compared to middle aged persons, and 12 times more often than children.

Another new set of data that recently became available are **Emergency Department Visits**. This valuable information is presented in Section 7 and includes the most common diagnoses patients present with at local emergency departments. There were some 647,535 visits to hospital emergency departments in 2006 over a quarter of which (27%) were related to injury. The majority of emergency department visits were related to abdominal or chest pain. Notably, for children, the top two reasons were upper respiratory infections and ear infections, conditions that in many cases might be addressed in a primary care setting. In general, higher rates of emergency department utilization were noted for central and north regions of the county compared to the west and south.

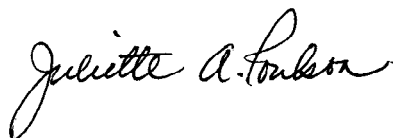
Ambulatory Surgical Procedures (Section 8) is another new dataset available to local health departments from the state that describe surgical procedures conducted in an outpatient setting. The most prevalent surgical procedures are analyzed and mapped by patient ZIP code. Of the 300,783 procedures performed in 2006, an overwhelming percentage of the patients (61%) were non-Hispanic Whites. The two most common procedures, colonoscopies and upper gastrointestinal endoscopy, in general, were performed at higher rates in ZIP codes in the southern and along the coastal regions of the county.

Section 9 presents the geographic distribution of **Infant Mortality**. Infant death is defined as a death occurring within the first 365 day of life. Thankfully, this is a short section of the report as the number of infant deaths is relatively low (e.g., 211 infant deaths in 2005) with a rate of 4.8 deaths per 1,000 live births.

Birth Indicators such as birth and fertility rates, teen births, prenatal care, and breastfeeding information are presented geographically in Section 10. With about 45,000 births each year in Orange County it is important to know which parts of the county have high birth rates, as well as adequate prenatal care and breastfeeding initiation. Relatively higher teen pregnancy rates are noted in central and northern regions of the county. Nearly one third of all babies born between 2004 and 2006 were delivered via Cesarean section, with women from coastal and southern regions manifesting notably higher rates than other parts of the county.

Thank you for your interest in this report. We sincerely hope that by presenting such health indicator data in a geographical format it proves useful in our shared goal of improving and protecting the health of Orange County residents.

Sincerely,

A handwritten signature in cursive script that reads "Juliette A. Poulson".

Juliette A. Poulson, RN, MN
Director

Acknowledgements

We would like to acknowledge the staff in the Office of Quality Management-Research & Planning group who prepared this report:

Alaka Nafday, MS, MSc, Research & Planning Manager I

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Finally, we would also like to acknowledge our colleagues in Public Health Services who provided much of the morbidity, mortality and birth data including Epidemiology & Assessment, the HIV/AIDs Program, and Pulmonary Disease Services.

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Orange County Health Indicators

A Geographic Profile

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Section 1: Demographic Profile

Section 1

Demographic Profile

Any assessment of a community’s health status must begin with a description of its population, and this is usually accomplished by use of the common descriptors: age, gender and race/ethnicity. Orange County population includes populations of the incorporated cities, plus additional regions in the County of Orange measured by the State of California Department of Finance. The estimated Orange County population in 2006 was 3.08 million people, ranking it the second most populous county in the state of California, behind Los Angeles County and slightly ahead of San Diego County.

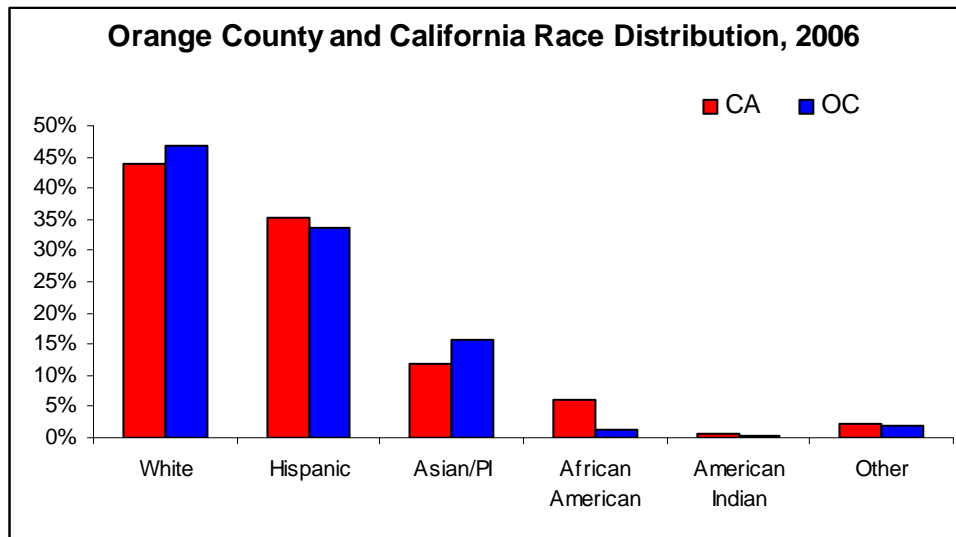
In the table below, the distribution of the County’s population by race/ethnicity is shown. The largest racial/ethnic group is White with 46.9%. The next largest group is the Hispanic or Latino with 33.8%. The third largest racial/ethnic group is Asian/Pacific Islanders with 15.6% of Orange County’s population. These are followed by Other (1.9%), African American (1.4%) and American Indian (.4%).

Distribution of Orange County and California Population by Race/Ethnicity, 2006

Population Subgroup	Orange County		California
	Number	Percentage	Percentage
Non-Hispanic White	1,444,413	46.9%	43.9%
Hispanic	1,040,486	33.8%	35.4%
Asian/Pacific Islander	479,118	15.6%	12%
African American	43,759	1.4%	6.0%
American Indian	11,238	.4%	.6%
Other	59,381	1.9%	2.1%
Total	3,078,395	100.0%	100.0%

Source: State of California, Department of Finance, *Race/Ethnic Population with Age and Sex Detail, 2000–2050*. Sacramento, CA, July 2007.
<http://www.dof.ca.gov/html/DEMOGRAP/Data/RaceEthnic/Population-00-50/documents/Orange.xls>

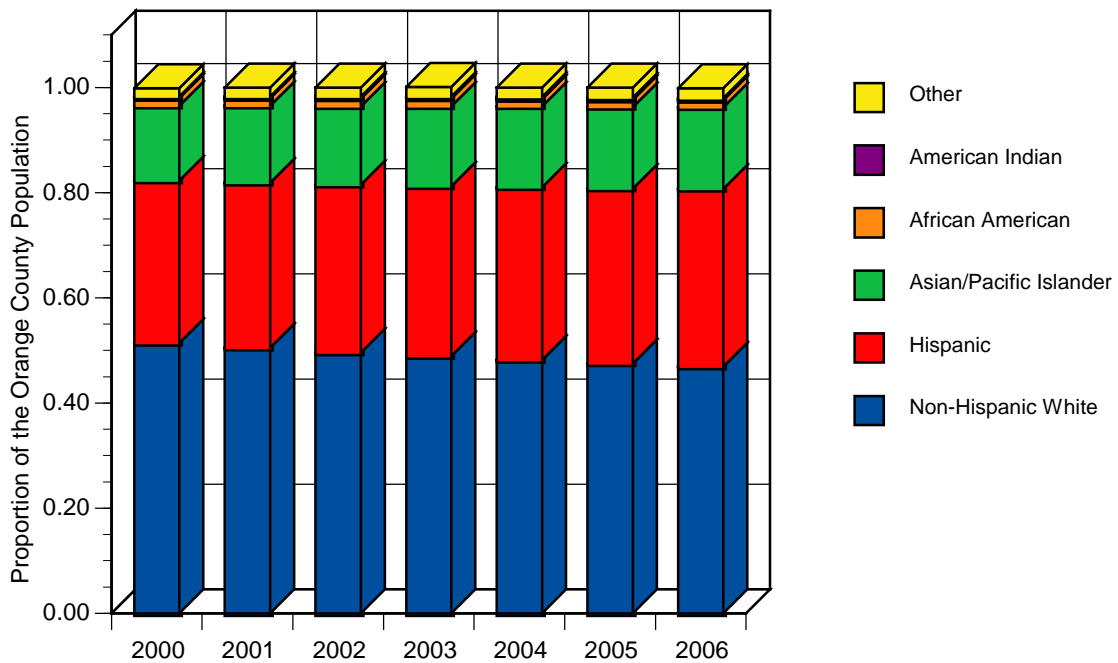
Compared to the statewide level, in 2006 Orange County had a higher proportion of Non-Hispanic Whites (46.9% versus California’s 43.9%) and Asian/Pacific Islanders (15.6% versus California’s 12.0%). In contrast, Orange County had a slightly lower proportion of Hispanics (33.8% versus California’s 35.4%) and African Americans (1.4% versus California’s 6.0%) than statewide levels. Overall, Orange County had a 4.4% smaller minority population than California (53.1% versus 56.1%) as reflected in the proportion of all ethnic groups compared to Whites.



Source: State of California, Department of Finance, 2006

Year to year comparisons of race/ethnicity population distribution in Orange County, from 2000 to 2006, showed that the Non-Hispanic White population decreased in proportion by 4.5%, while the Hispanic (2.9%) and Asian Pacific Islanders (1.3%) populations increased. The African American, American Indian and Other demographic groups have remained relatively small and unchanged.

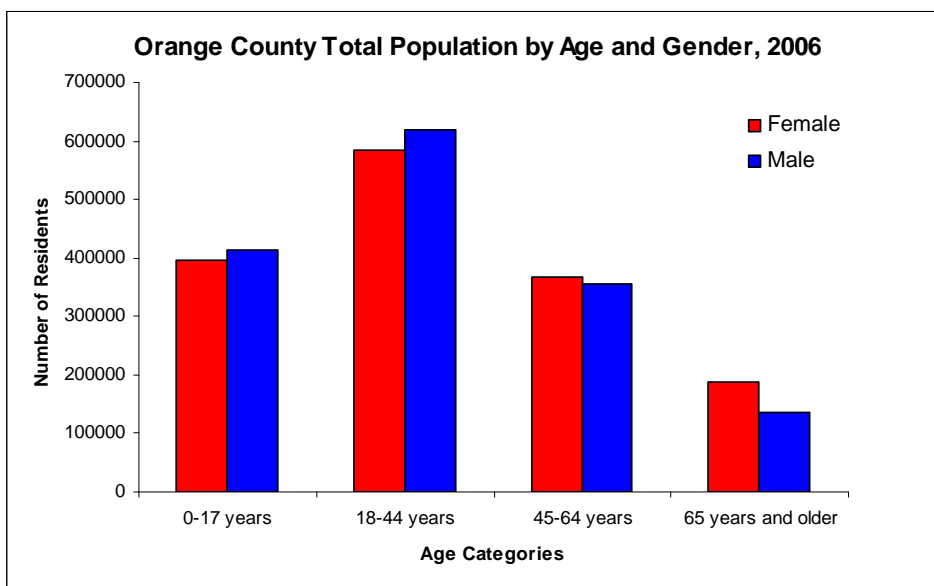
Orange County's Changing Population by Race/Ethnicity (2000-2006)



Source: State of California, Department of Finance

Orange County Population by Age Group and Gender

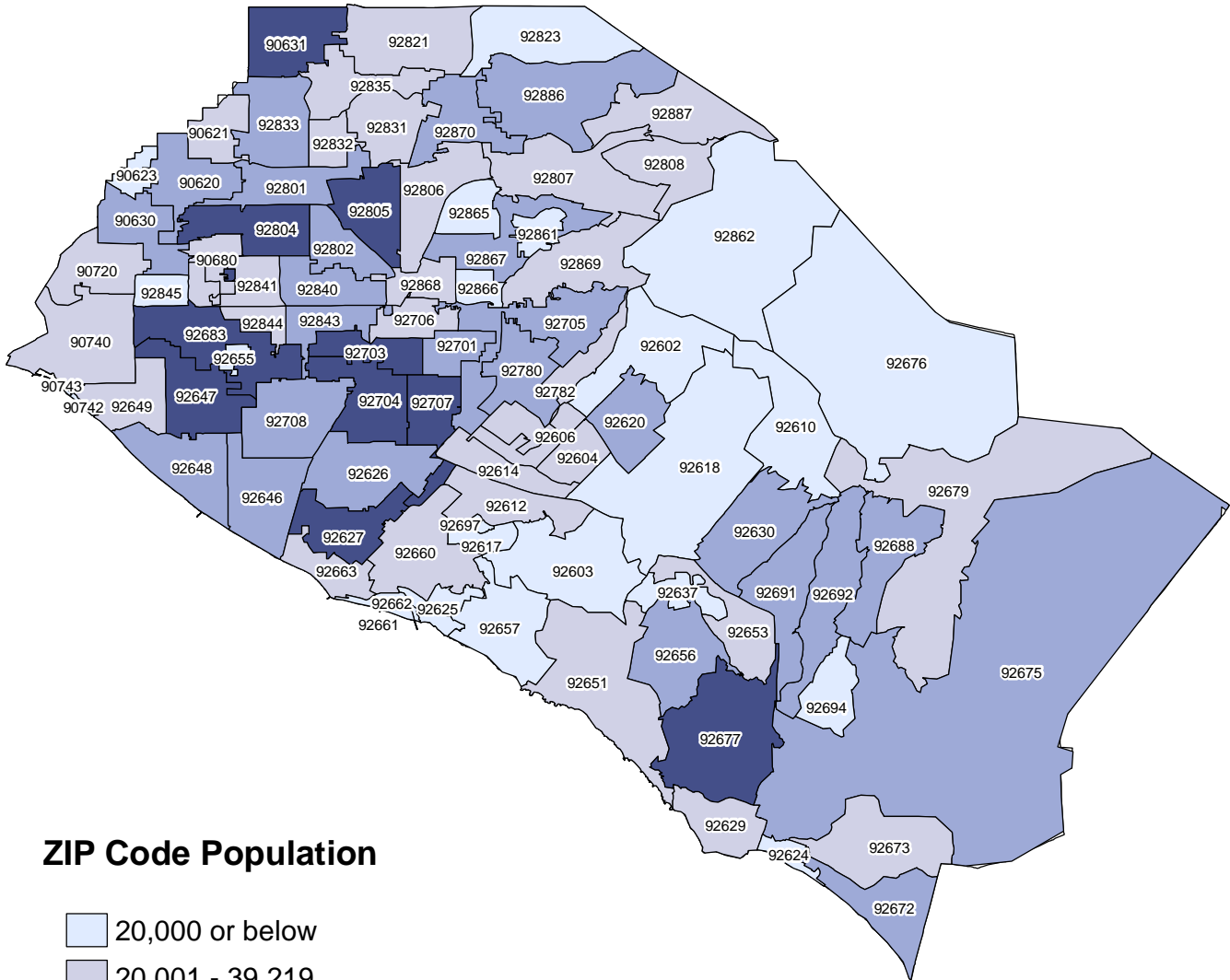
The figure below depicts the age and gender distribution of Orange County's population for all races combined. Children (0 to 17 years) comprised 26.4% of the total county population in 2006. The vast majority of residents (63.0%) between the ages of 18 to 64 years comprised the workforce age group. The remaining 10.6% of the population were older adults age 65 years and up. Females (50.1%) slightly outnumbered males (49.9%) in the general population. When looking more closely at the age categories, males outnumber females from 0-44 years. From age 45 years on, females outnumber males.



The maps on the following pages present the geographic distribution of the population of Orange County by ZIP code of residence for the entire population and for the following breakout groups that will be used for many of the indicators in this report:

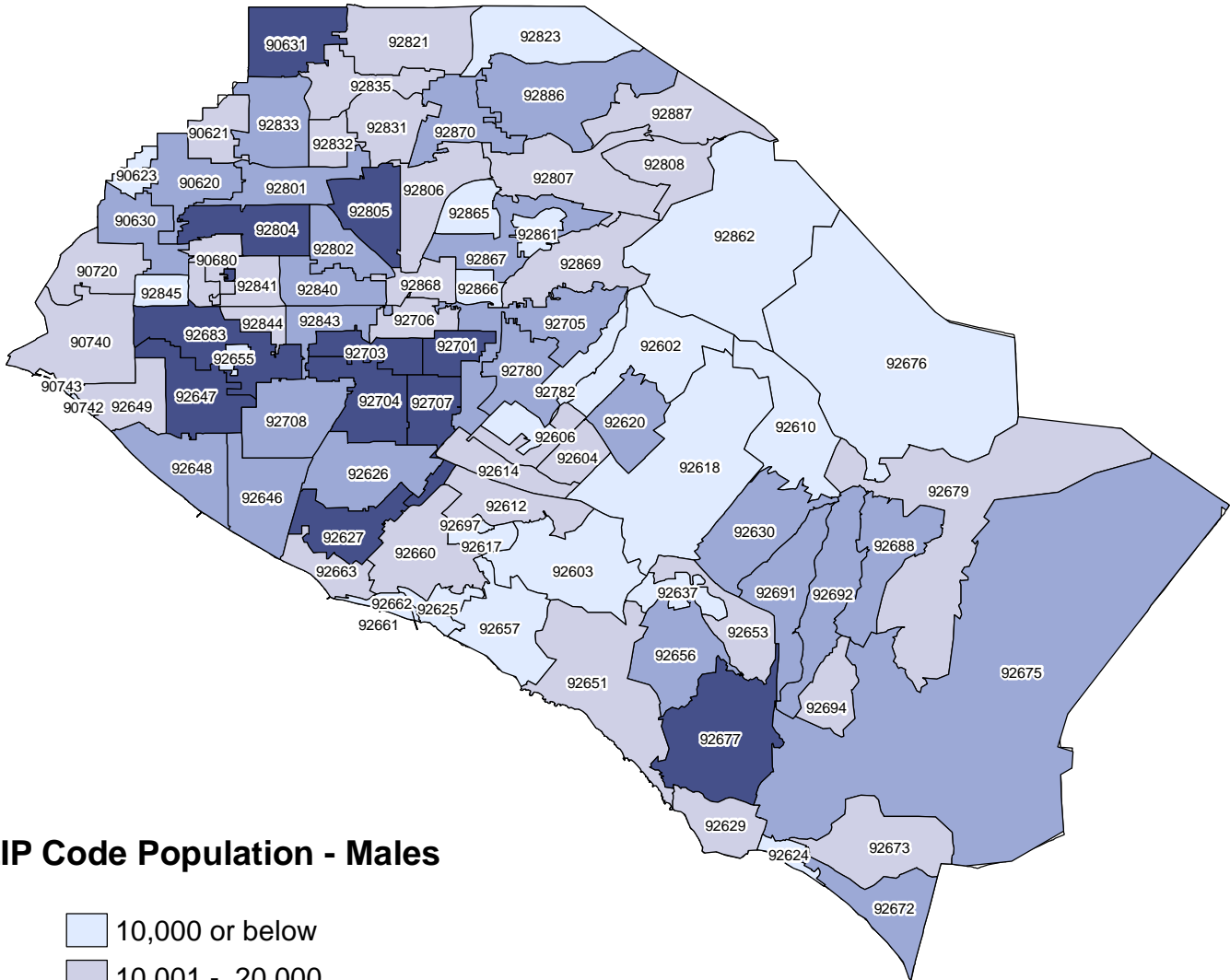
- All Ages
- Males
- Females
- Children 0-17 years of age
- Young Adults 18-44 years of age
- Adults 45-64 years of age
- Older Adults 65 years and older

Orange County Population by ZIP Code of Residence (2006)



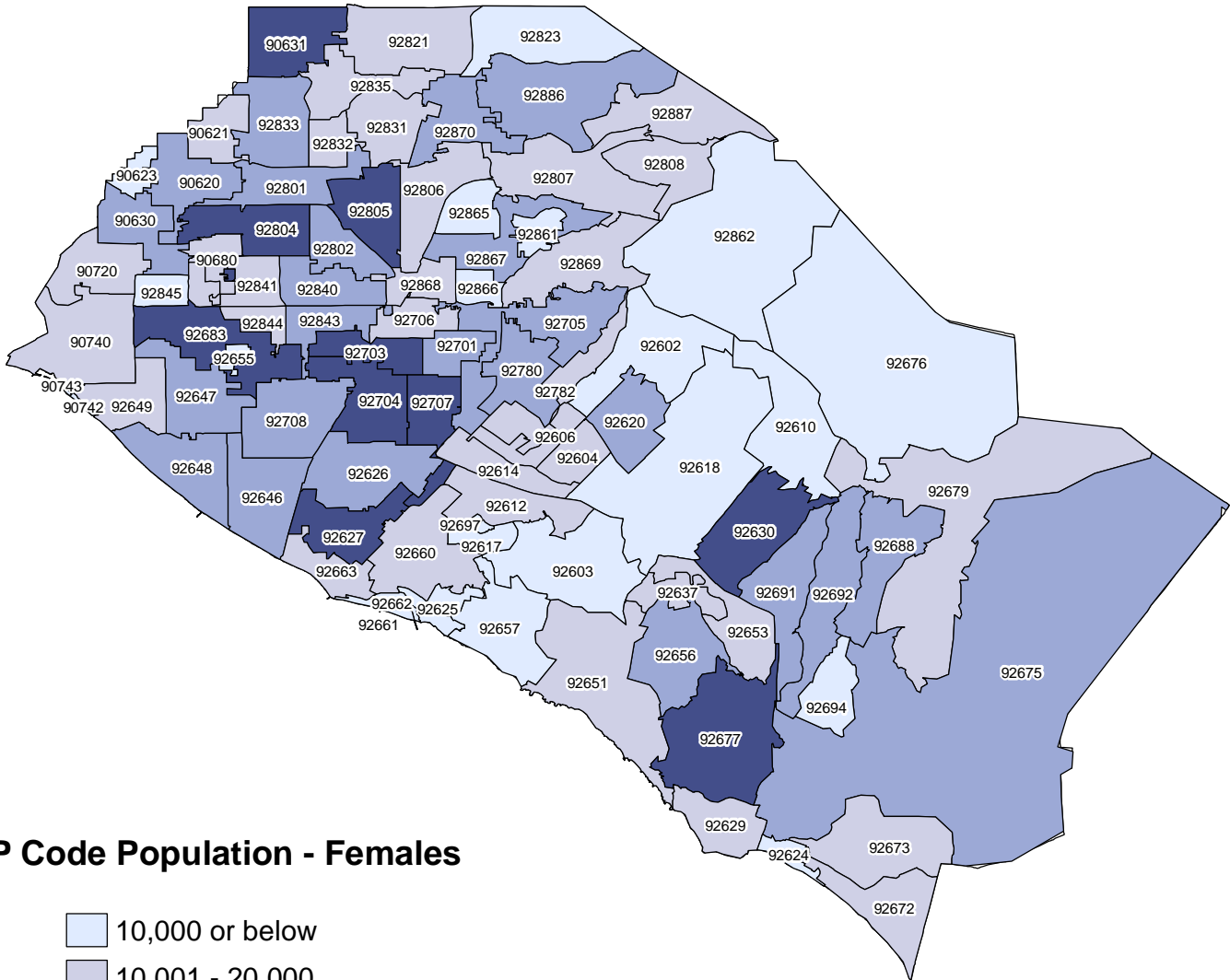
Quality Management, Orange County Health Care Agency, 2008
 Data Source: Claritas 2006 Orange County Population by ZIP Code

Orange County Males by ZIP Code of Residence (2006)



Quality Management, Orange County Health Care Agency, 2008
 Data Source: Claritas 2006 Orange County Population by ZIP Code

Orange County Females by ZIP Code of Residence (2006)

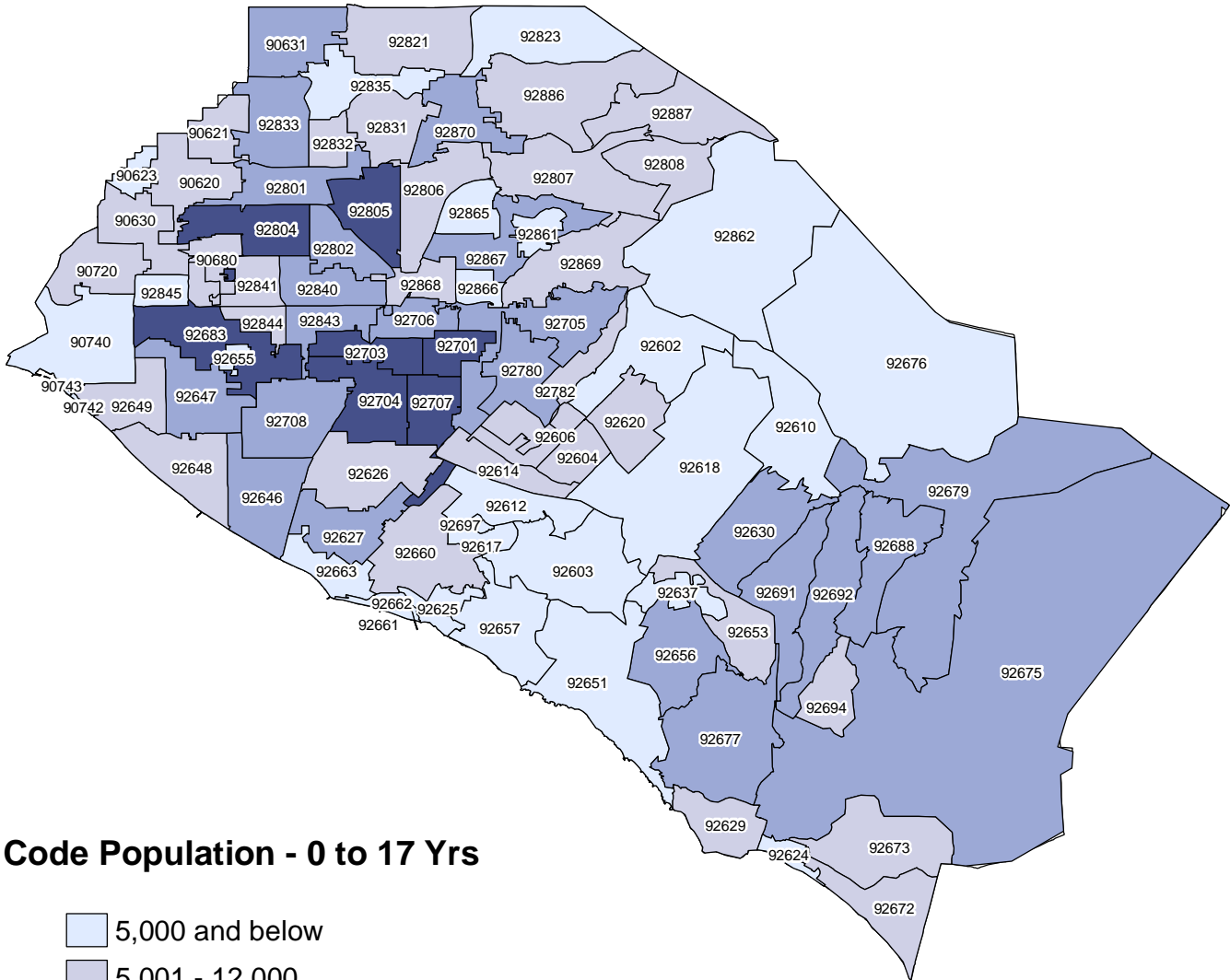


ZIP Code Population - Females

- 10,000 or below
- 10,001 - 20,000
- 20,001 - 30,000
- 30,001 - 45,002

Quality Management, Orange County Health Care Agency, 2008
 Data Source: Claritas 2006 Orange County Population by ZIP Code

Orange County Children 0 to 17 Years of Age by ZIP Code of Residence (2006)

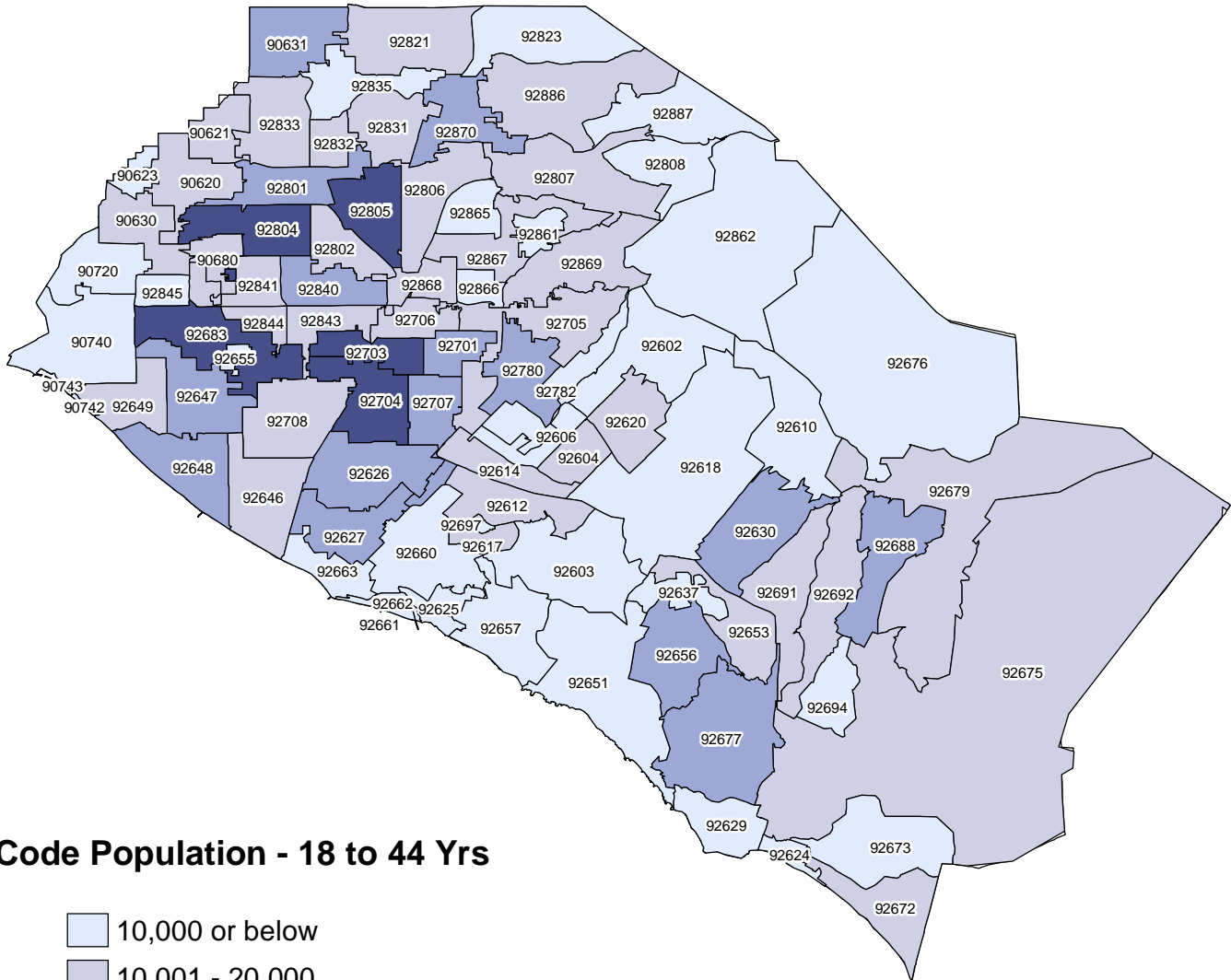


ZIP Code Population - 0 to 17 Yrs

- 5,000 and below
- 5,001 - 12,000
- 12,001 - 20,000
- 20,001 - 28,988

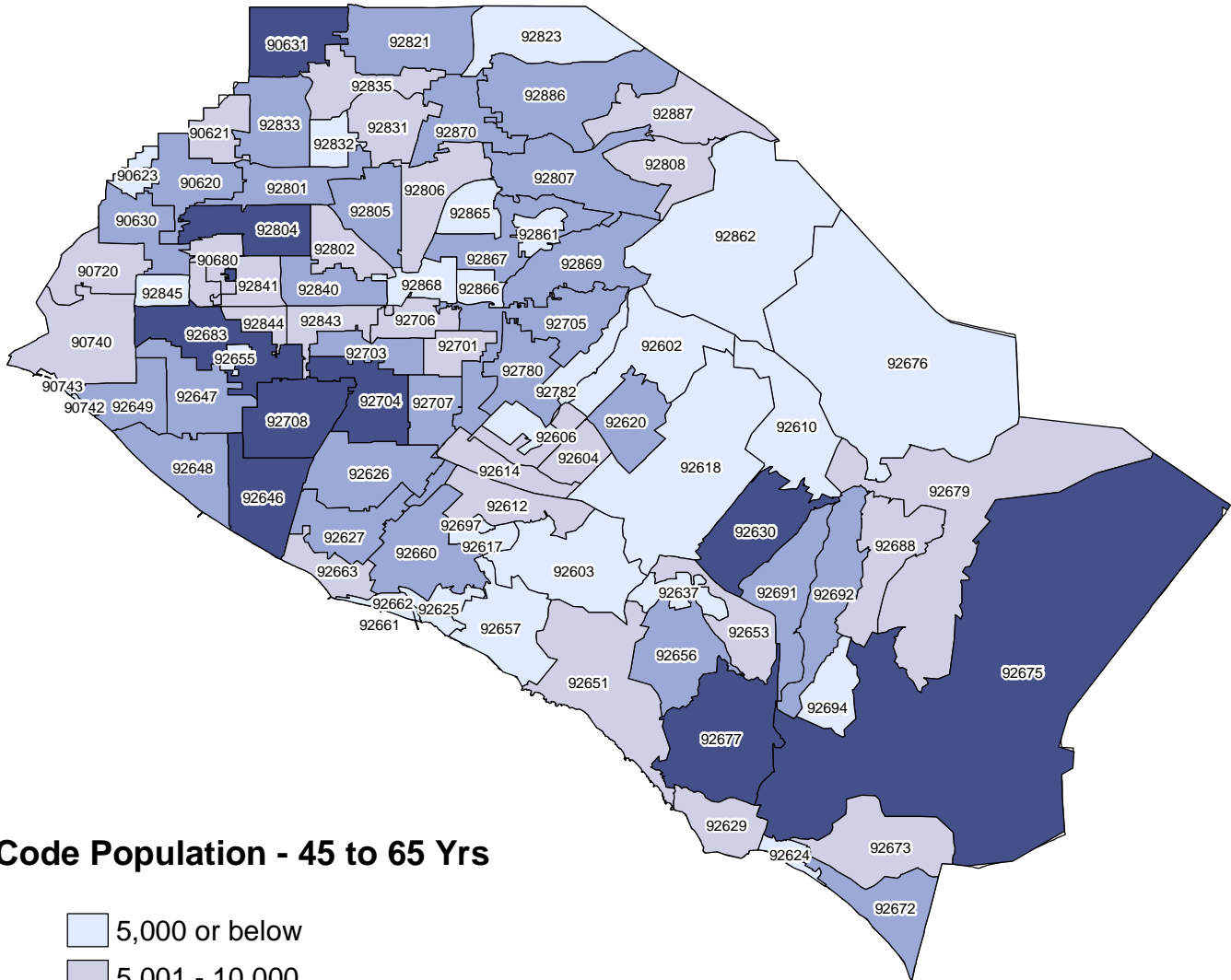
Quality Management, Orange County Health Care Agency, 2008
 Data Source: Claritas 2006 Orange County Population by ZIP Code

Orange County Young Adults 18 - 44 Years of Age by ZIP Code of Residence (2006)



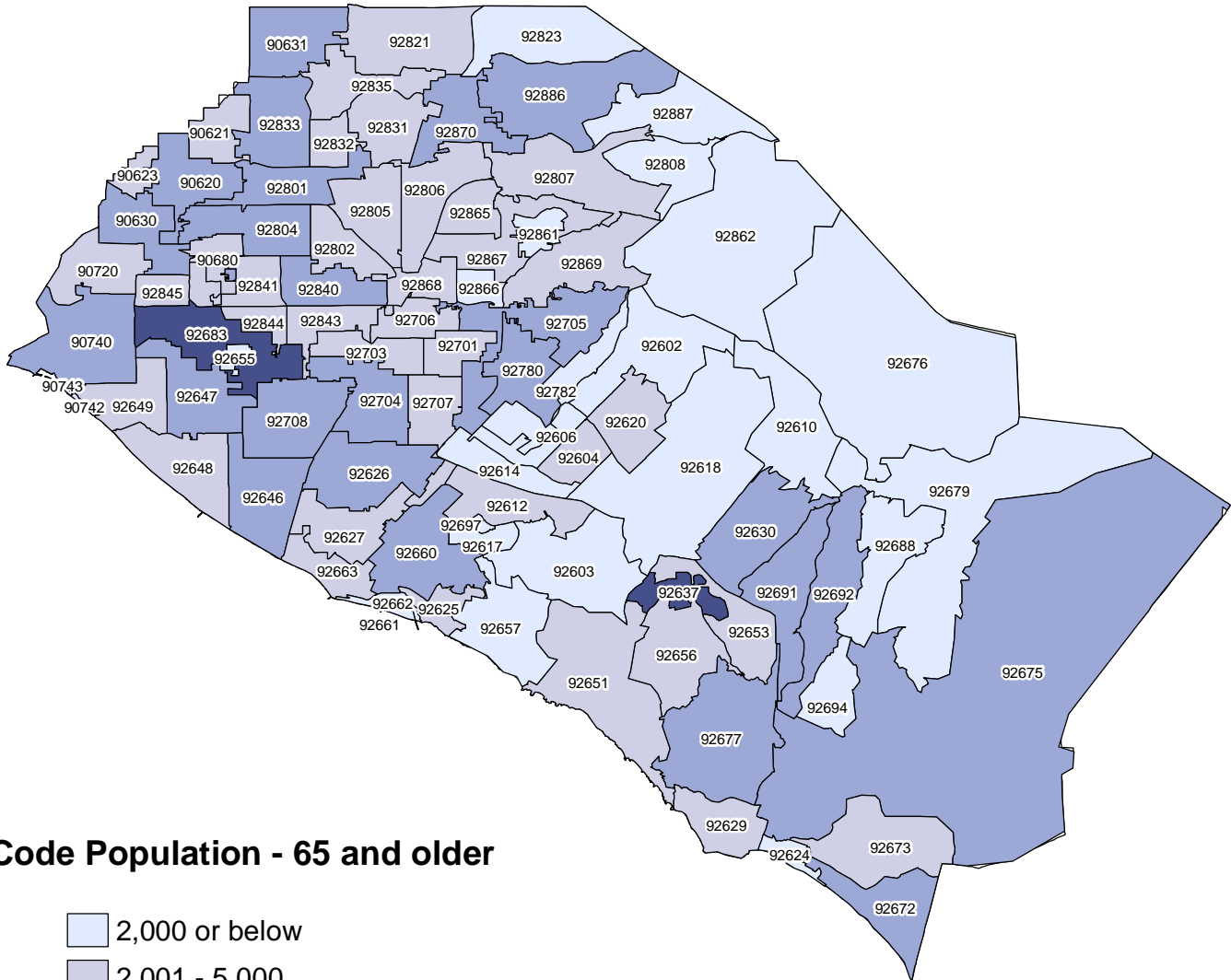
Quality Management, Orange County Health Care Agency, 2008
 Data Source: Claritas 2006 Orange County Population by ZIP Code

Orange County Adults 45 - 64 Years of Age by ZIP Code of Residence (2006)



Quality Management, Orange County Health Care Agency, 2008
 Data Source: Claritas 2006 Orange County Population by ZIP Code

Orange County Older Adults 65 Yrs and Older by ZIP Code of Residence (2006)



Quality Management, Orange County Health Care Agency, 2008
 Data Source: Claritas 2006 Orange County Population by ZIP Code

Section 2: Socioeconomic Profile

Section 2

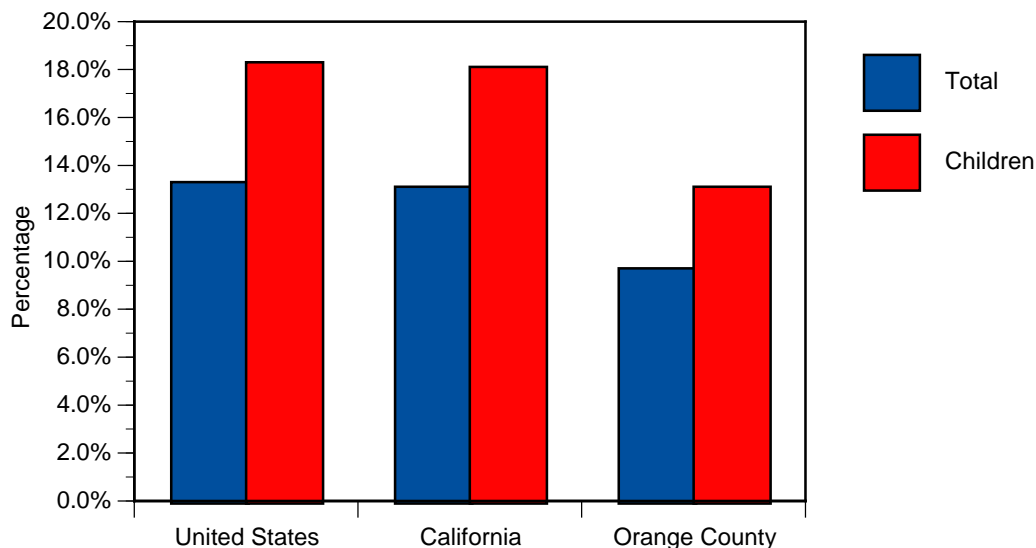
Socioeconomic Profile

A socioeconomic profile can provide a picture of the special health service needs of the community. It is also a strong indicator of the overall health status of the community. Some socioeconomic indicators are compiled regularly because of the statutory requirements of federal and state health and human service programs, while only survey or census can provide other indicators.

Percent of Population below Poverty Level

The U.S. Census Bureau's 2006 American Community Survey indicates 13.1% of persons less than 18 years of age in Orange County, 18.1% of Californians, and 18.3% of the U.S. population under the age of 18 were below the poverty level. This survey also indicated that 9.7% of Orange County population was living below the poverty level compared to 13.1% of Californians and 13.3% of the U.S. population.

Percent of Population Below Poverty Level (2006)

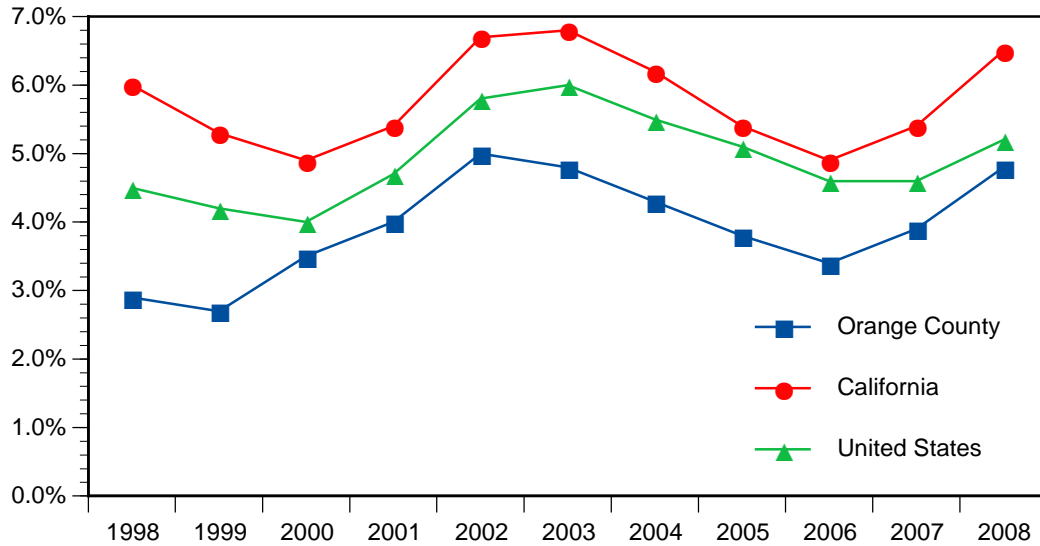


Source: U.S. Census Bureau, American Community Survey 2006 Data Profile

Percent of Population Unemployed

According to the California Employment Development Department, Orange County's unemployment rate (not seasonally adjusted) was 4.8% in May 2008. This is the second highest unemployment rate in the last 10 years, following behind the 2002 employment rate of 5% and tying with the 2003 rate. Compared to statewide and nationwide rates, Orange County's unemployment rate in 2008 was lower than both California (6.5%) and the United States (5.2%). Year-to-year comparisons from 1998 to 2008 for Orange County, California and the United States consistently show that unemployment rates for Orange County have been lower than unemployment rates for California and the United States.

Unemployment Rates for OC, CA & US (1998-2008)



Source: CA Employment Development Department and US Bureau of Labor Statistics

Food Stamp Recipients

The Food Stamp Program helps to improve the diets of low-income households by enabling them to obtain more food than they would otherwise be able to purchase. Food stamps are certified based upon the concept of a household. A household is an individual living alone or a group of individuals who purchase and prepare food together. Eligibility requirements include residence in the county, citizenship, income and resources below the allowable limit, and provisions of social security numbers for all members of the household. Homeless persons may be eligible to receive food stamps.

The amount of food stamps a household receives depends on the income and number of persons in the household. The United States Department of Agriculture determines the benefit level amounts. SSI recipients are not eligible to receive food stamps in California.

Food stamps may be used to purchase food for human consumption including seeds/plants to grow food. Alcoholic beverages, paper products, pet food, tobacco products, prepared hot foods and cleaning products cannot be purchased with food stamps.

The table and map on the following pages display OC Public Assistance Food Stamp Recipients for December 2007 by ZIP code. There were 85,667 Orange County food stamp recipients. A third of food stamp recipients reside in three cities and six zip codes: Santa Ana (92703, 92704, 92701), Westminster (92683) and Anaheim (92804, 92805).

Medical Services Initiative Program (MSI) Population

Since 1983, the Medical Services Initiative Program (MSI) has been a County-funded Safety Net Program responsible for the provision of medical care to Orange County's medically indigent adults. MSI acts as a payer to hospitals, clinics, physicians, ambulance companies, home health providers and other providers that serve eligible low-income patients.

The program covers medical care for Orange County residents ages 21 through 64 years who have limited or no other financial resources for medical care. The scope of services covers those services that

protect life, and/or prevent significant and permanent impairment in health status and/or function. Recently, the program has been expanded to also provide primary and preventative care. Financial eligibility is based on Medi-Cal criteria, with an income cap at 200% of the Federal Poverty Level. MSI also requires proof of residency and US citizenship, and offers covered services for a twelve-month period at a time.

There were 14,436 persons in Orange County's Medical Services Initiative program in April 2008 as reported by the Medically Indigent Care Reporting System (MICRS). Ten ZIP codes from Westminster (92683), Santa Ana (92703, 92704), Anaheim (92804, 92801, 92805), Garden Grove (92843, 92840, 92844) and Costa Mesa (92627) accounted for more than 40% of the indigent population, as shown in the following table and map that display the MSI population by ZIP code.

Medi-Cal Population

Medi-Cal is the California implementation program for the federal Medicaid program. Based on the December 2007 eligibility roles, there were 368,575 Medi-Cal Eligibles in Orange County. Because of the cultural diversity of this population the following table and maps are provided to display where the Medi-Cal eligible population resides in Orange County. Six ZIP codes from Santa Ana (92704, 92703, 92701), Anaheim (92804, 92805) and Westminster (92683) accounted for approximately 30% of the county Medi-Cal Eligibles in Orange County.

The table displays the Medi-Cal population by the primary language spoken at home. The state of California has determined that English (36%), Spanish (44%) and Vietnamese (12%) are the primary threshold languages (defined as 3,000 or 5% of beneficiary population) for Orange County. Two maps are provided, one for Spanish and one for Vietnamese speaking beneficiaries. Each map depicts the distribution of Medi-Cal Eligibles speaking that particular language, by ZIP codes of the county. Three cities had ZIP codes which accounted for 69% of the total Vietnamese speaking Medi-Cal Eligibles in Orange County: Westminster (92683), Garden Grove (92843, 92844, 92840, 92841) and Santa Ana (92704, 92703). Two cities had ZIP codes which accounted for approximately 50% of the total Spanish speaking Medi-Cal Eligibles in Orange County: Santa Ana (92704, 92703, 92701, 92707, 92706) and Anaheim (92805, 92801, 92804).

The table and maps exclude 4% (n=14,715) of the total 368,575 cases, either with an out-of-county ZIP code or with an inaccurate or blank ZIP code.

Enrollment Trends for Children: Medi-Cal, Healthy Families, California Kids, AIM, and Kaiser Permanente's Child Health Plan

As of January 2008, 179,745 children were enrolled in Medi-Cal, over 78,000 were enrolled in Healthy Families, over 4,000 were enrolled in CaliforniaKids, 758 were enrolled in Healthy Kids, and almost 6,900 were enrolled in Kaiser Permanente's Child Health Plan (CHP). Access for Infants and Mothers (AIM) had a monthly average of 545 pregnant and new mothers enrolled during 2006. Additionally, the Child Health and Disability Prevention (CHDP) program provided 110,316 health assessments during the 2006/07 fiscal year.¹

¹ CHDP data reported in previous *Conditions of Children* reports only included State funded and Medi-Cal fee-for-service health assessments, and did not include CHDP Medi-Cal Managed Care health assessments.

The Orange County Health Needs Assessment (OCHNA) survey in 2007 estimated that approximately 27,677 Orange County children (3.5%) were uninsured, down from approximately 38,400 (4.8%) in 2004 and 65,300 (8.5%) in 2001.²

Enrollment by Program - January 2004 to January 2008

	Medi-Cal Under Age 18	Healthy Families	California Kids	Kaiser Permanente	Healthy Kids	Total
2004	178,124	66,617	4,610	442	N/A	249,793
2005	181,723	67,088	5,822	1,130	N/A	254,633
2006	175,290	68,696	4,940	3,490	N/A	252,689
2007	176,525	71,642	4,968	6,767	347	260,249
2008	179,745	78,407	4,094	6,893	758	269,897

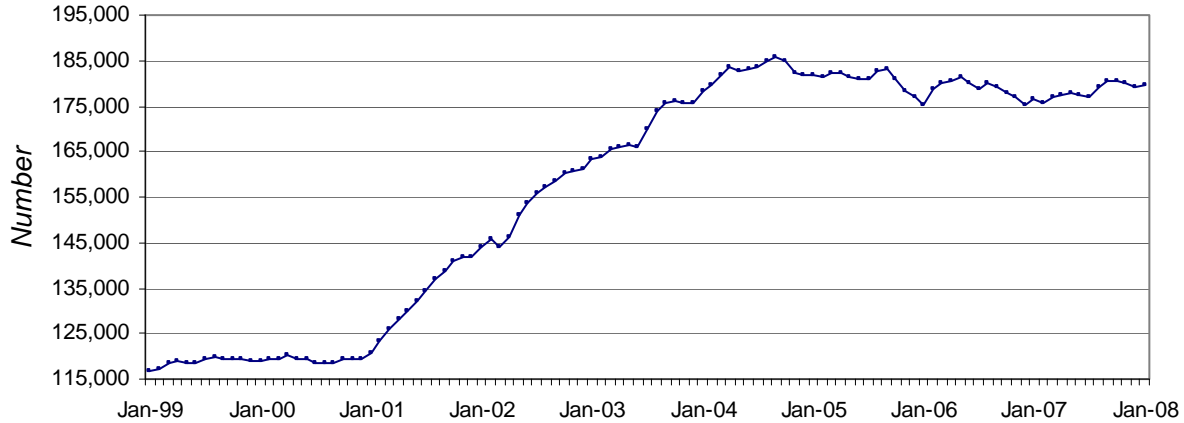
Despite significant growth in Medi-Cal and Healthy Families enrollments from 1999 through 2003, growth in both programs leveled off between 2004 and 2008, with only 5% growth in these programs over the past five years. Enrollment in the CaliforniaKids program peaked during 2004, but rates have steadily dropped since, primarily due to reduced private funding. The only programs to show notable increases in enrollments during recent years are Healthy Kids, which doubled enrollments in the past year, and Kaiser Permanente’s Child Health Plan, which tripled its enrollments during 2005 and again, doubled its enrollment during 2006. However, these programs cover fewer than 8,000 children; Healthy Kids and CaliforniaKids are limited by funding constraints.

The number of health exams provided by the CHDP program to children who were not enrolled in other health plans increased by 33% between FY2003-04 and FY2004-05, but decreased by 8% during FY2005-06, and by 30% during FY2006-07. By June 2008, 8,645 children seen at the Health Care Agency received assistance in applying for Medi-Cal, Healthy Families, and other health insurance programs. Of these, 5,140 of the applications were subsequently approved with the rest pending. Over 2,200 of the children’s families reported that they had already visited their new doctors. The following data shows the year-to-year enrollment trends for Medi-Cal, Healthy Families, California Kids and Kaiser Permanente.

Medi-Cal. The number of Medi-Cal Eligible children enrolled increased by 54% between January 1999 and January 2008. The rate of growth in the Medi-Cal program slowed during the first two years after the inception of the Healthy Families program (i.e., 1999, 2000). Enrollments rose between 2001 and 2004 with an increase of 19% during 2001, 14% in 2002, 9% in 2003 and 3% in 2004. Enrollment after 2004 appears to be leveling off. Enrollment in the program declined 3% in 2005 and 1% in 2006, but increased slightly by 2% in 2007. The most recent enrollment number available suggests that 179,745 children were Medi-Cal eligible as of January 2008.

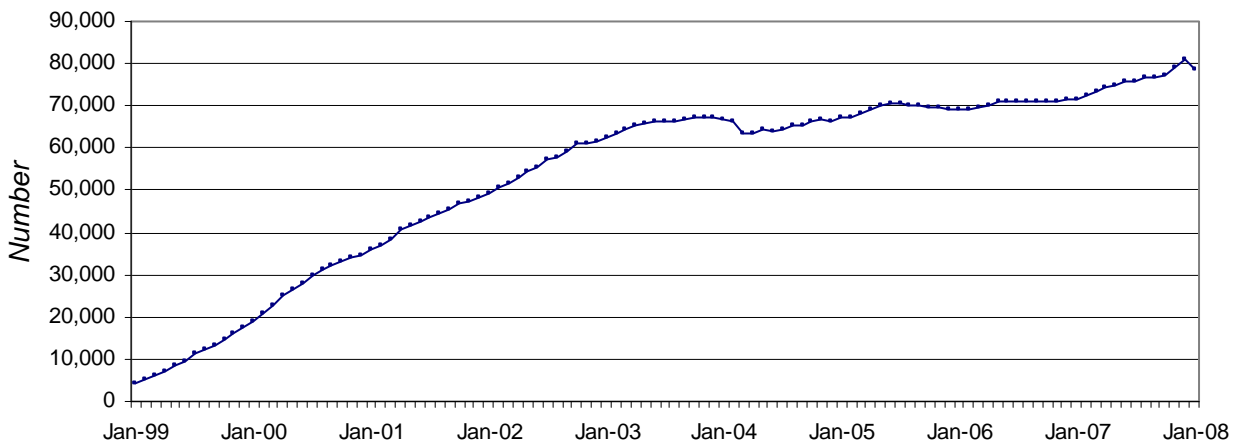
² The 2005 California Health Interview Survey (CHIS 2005) had a higher estimated (i.e., 8.2% or 66,000). Additionally, CHIS (2005) found that about half of those uninsured children were eligible for Medi-Cal or Healthy Families.

Medi-Cal Eligible Enrollments (<18 yrs)



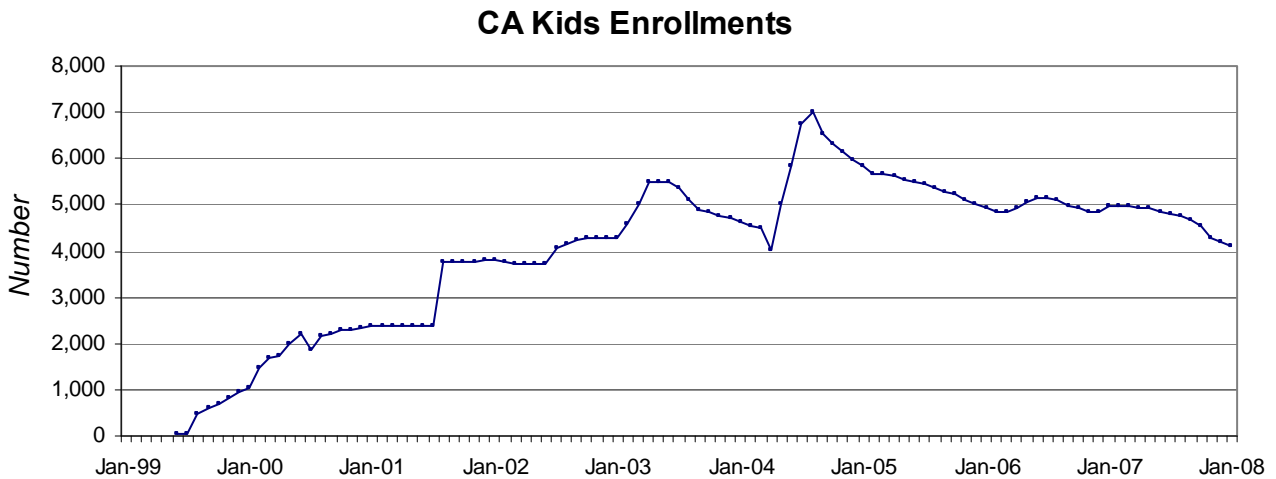
Healthy Families. The most significant advances in insuring Orange County children has resulted from the Healthy Families Program. Healthy Families was created in mid-1998 and provides low-cost health insurance to children of families whose income are too high to qualify for Medi-Cal, but are below 250% of Federal Poverty Level. Healthy Families covers a range of health care services including physician visits, hospital care, prescription drugs, home health, dental and mental health services. As of June 2008, 81,982 children had secured health insurance through Healthy Families. Enrollment in the program increased the most from 1999 to 2003. The program enrollment grew by 357% in 1999, by 98% in 2000, by 39% in 2001, and by 28% in 2002. Enrollment has slowed in the past several years to an average enrollment increase of about only 4% per year between 2003 and 2006. In 2007 there was a slightly higher increase in enrollment of 13%.

Healthy Families Current Enrollments

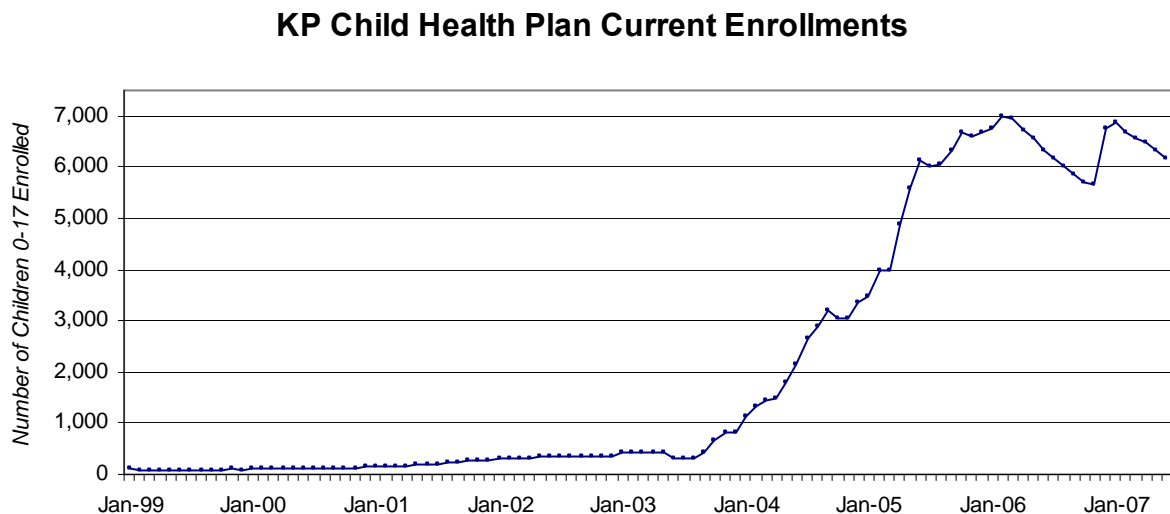


CaliforniaKids. CaliforniaKids is an independent non-profit organization that provides premium-subsidized, comprehensive preventive and primary health care services to children ages 2 through 18. CaliforniaKids serves children who are not eligible for government-sponsored health care programs and whose parents cannot afford the cost of private medical insurance. As of June 2008, there were 3,797 children enrolled in CaliforniaKids. Enrollment increased systematically from 1999 to mid-2004,

averaging about 20% growth per year. The enrollment growth slowed to 12% in 2002, and to 10% by 2003. Additionally, although enrollment was at a record high in late spring of 2003, the number of children covered by California Kids decreased by late summer and remained steady through the end of 2003. In 2004 enrollment increased by 28%, with the highest enrollment level of almost 7,000 in the summer of 2004. Since the peak in 2004, enrollment has declined by almost half (45%) to about 4,000 children as of January, 2008.



Kaiser Permanente's (KP) Child Health Plan. This program insures kids whose families' income is between 0-300% of the federal income guidelines and who are not eligible for other publicly-available programs (e.g., Medi-Cal, Healthy Families, CaliforniaKids). As of January 2008, a total of 6,893 children were enrolled in KP's Child Health Plan, including both those who were formerly enrolled in KP's *Cares for Kids* program and children newly-enrolled into the *Child Health Plan*. The enrollment in KP Child Health Plan was significantly expanded between 2003 and 2007, from around 300 children to a peak of almost 7,000. Enrollment in the program had remained relatively stable averaging around 6,500 children in the first half of 2008.



Orange County Community Health Clinics

Community Clinics in Orange County provide affordable health care to people in need, thereby increasing accessibility to health care. Services at community health centers can include immunization, family health, dental, vision, STD testing, to name a few. There are 33 community clinics with various locations in Orange County (see map). Additionally, many hospitals also operate mobile clinics throughout the County.

Currently nine of the community clinics are federally designated as serving a Federally Qualified Health Center (FQHC) making them eligible for specific federal programs and funding. The clinics are shown along with areas of Orange County that have been designated as underserved, specifically Medically Underserved Area (MUA), Medically Underserved Population (MUP) or as a Health Professional Shortage Area Designation (HPSA). See the Health Resources and Services Administration for additional information: <http://bphc.hrsa.gov/policy/>.

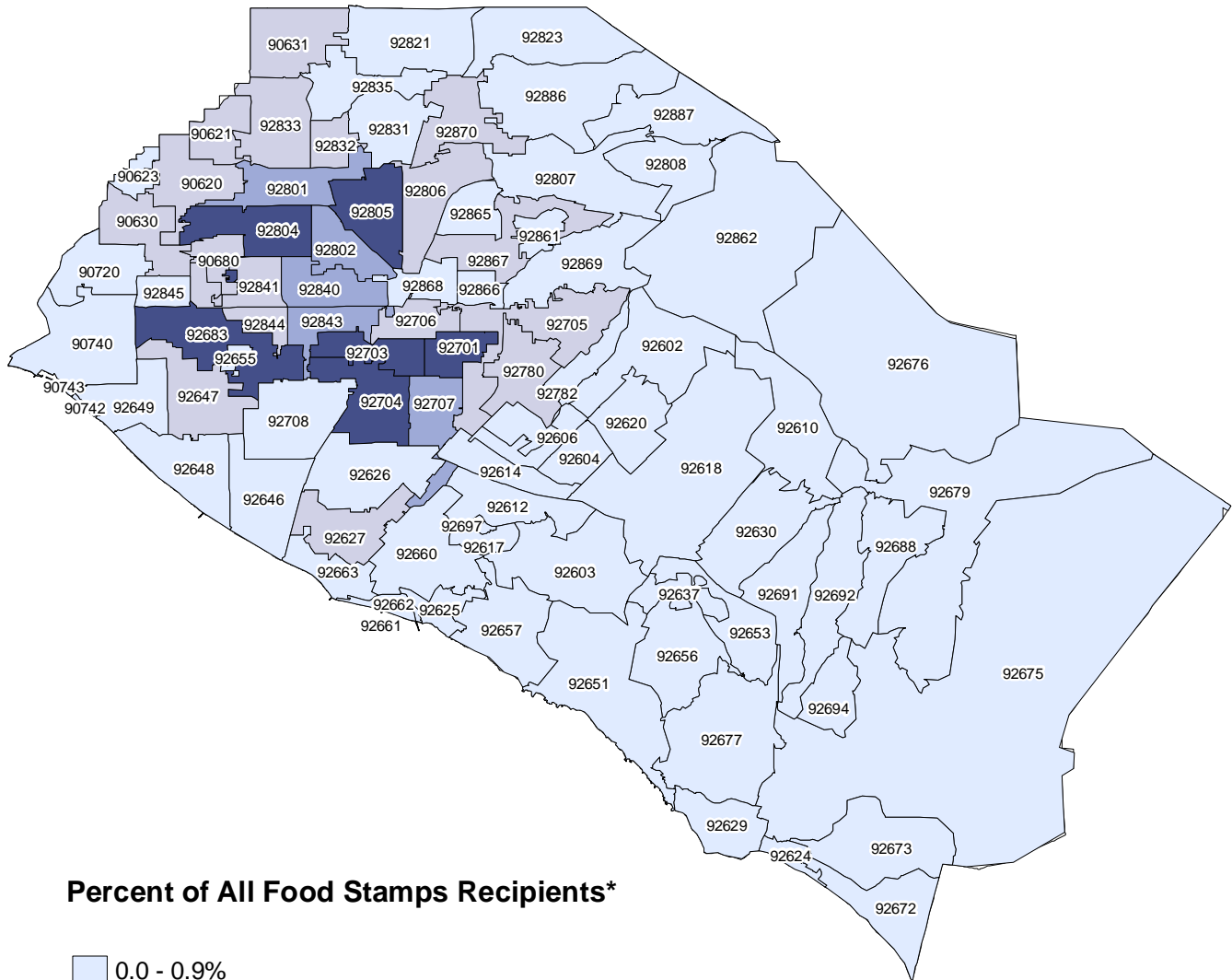
List of Tables and Maps by Zip Code of Residence

- 2.1 Public Assistance Food Stamp Recipients
- 2.2 Medi-Cal Eligibles by Language Spoken at Home
- 2.3 Medical Services Initiative Client Population
- 2.4 Community Clinics in Orange County
- 2.5 Roster of Community Clinics and Federal Designation Status

Table 2.1
Orange County
Public Assistance Food Stamp Recipients, 2007

ZIP Code	Food Stamps Recipients	Percent	ZIP Code	Food Stamps Recipients	Percent
90620	1,094	1.3%	92677	364	0.4%
90621	1,874	2.2%	92679	52	0.1%
90623	104	0.1%	92683	5,294	6.2%
90630	949	1.1%	92688	256	0.3%
90631	2,018	2.4%	92691	343	0.4%
90638	0	0.0%	92692	240	0.3%
90680	1,946	2.3%	92694	90	0.1%
90703	0	0.0%	92697	0	0.0%
90720	179	0.2%	92701	4,723	5.5%
90740	75	0.1%	92703	5,455	6.4%
90742	4	0.0%	92704	4,939	5.8%
90743	1	0.0%	92705	1,049	1.2%
90815	0	0.0%	92706	2,025	2.4%
92602	164	0.2%	92707	2,916	3.4%
92603	44	0.1%	92708	753	0.9%
92604	291	0.3%	92780	1,687	2.0%
92606	220	0.3%	92782	104	0.1%
92610	25	0.0%	92801	4,118	4.8%
92612	203	0.2%	92802	2,765	3.2%
92614	253	0.3%	92804	4,738	5.5%
92617	47	0.1%	92805	4,504	5.3%
92618	101	0.1%	92806	1,535	1.8%
92620	321	0.4%	92807	380	0.4%
92624	96	0.1%	92808	62	0.1%
92625	14	0.0%	92821	335	0.4%
92626	804	0.9%	92823	6	0.0%
92627	1,497	1.7%	92831	706	0.8%
92629	107	0.1%	92832	1,176	1.4%
92630	638	0.7%	92833	1,563	1.8%
92637	56	0.1%	92835	214	0.2%
92646	422	0.5%	92840	2,659	3.1%
92647	1,889	2.2%	92841	1,945	2.3%
92648	524	0.6%	92843	3,179	3.7%
92649	239	0.3%	92844	1,765	2.1%
92651	66	0.1%	92845	147	0.2%
92653	295	0.3%	92861	12	0.0%
92655	762	0.9%	92862	0	0.0%
92656	276	0.3%	92865	416	0.5%
92657	7	0.0%	92866	289	0.3%
92660	63	0.1%	92867	974	1.1%
92661	13	0.0%	92868	709	0.8%
92662	11	0.0%	92869	622	0.7%
92663	149	0.2%	92870	1,444	1.7%
92672	412	0.5%	92886	182	0.2%
92673	196	0.2%	92887	71	0.1%
92675	399	0.5%	Unknown		
92676	13	0.0%	Total	85,667	100.0%

Orange County Food Stamps Recipients by ZIP Code of Residence December 2007



* Includes persons receiving CalWORKS and Medi-Cal Benefits.

Quality Management, Orange County Health Care Agency, 2008

Data Source: Orange County Social Services Agency

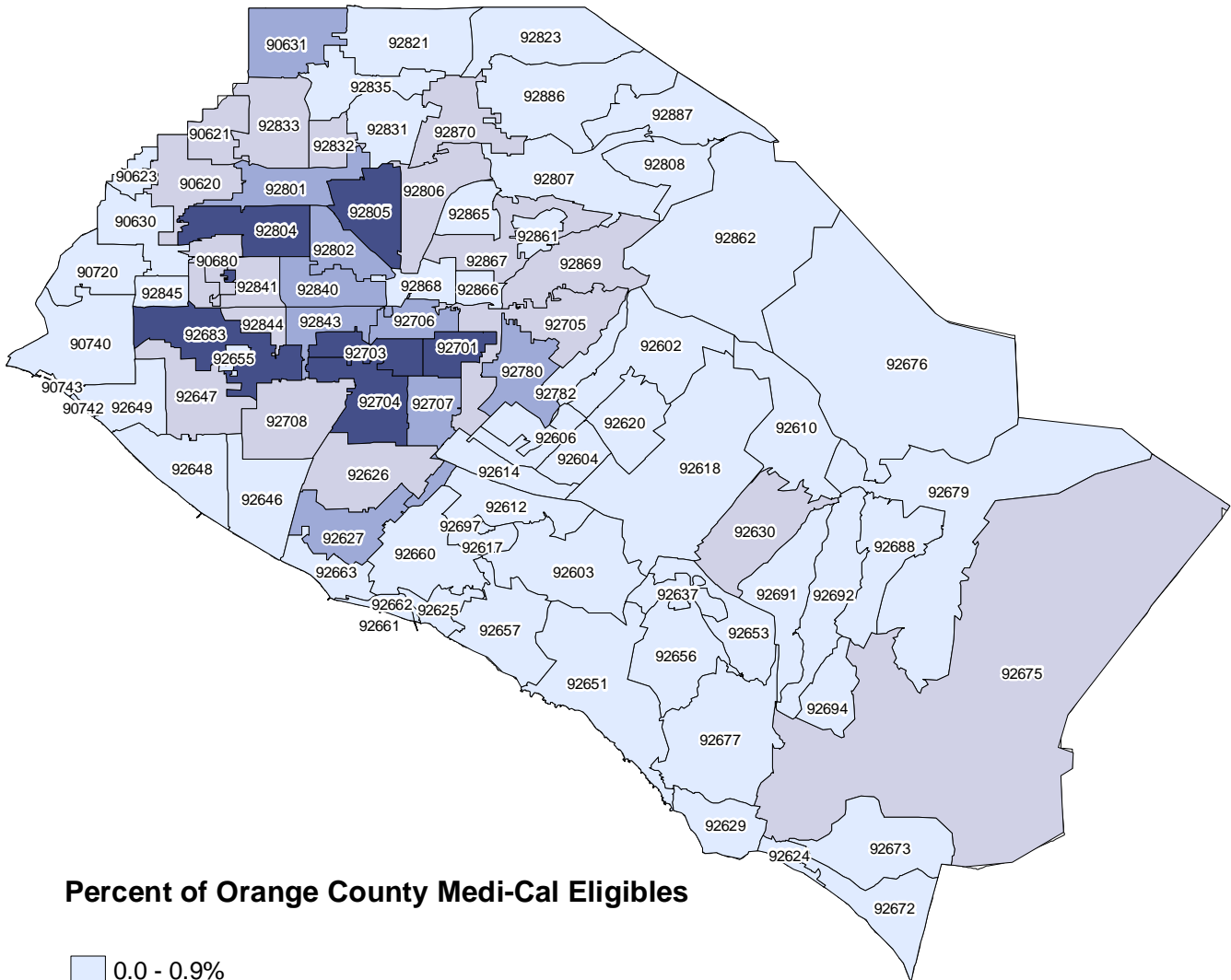
Table 2.2
Orange County Medi-Cal Eligibles (December 2007)
By ZIP and Language Spoken At Home

ZIP Code	English	Spanish	Vietnamese	Other	Total	% of Medi-Cal Population
90620	3,032	1,144	144	636	4,956	1.3%
90621	3,010	2,663	62	492	6,227	1.7%
90623	570	72	31	227	900	0.2%
90630	2,223	343	120	417	3,103	0.8%
90631	3,216	4,212	22	389	7,839	2.1%
90680	2,317	2,894	1,210	358	6,779	1.8%
90720	594	63	4	125	786	0.2%
90740	398	9	11	156	574	0.2%
90742	29	0	0	7	36	0.0%
90743	5	0	0	2	7	0.0%
92602	552	20	56	186	814	0.2%
92603	286	17	7	141	451	0.1%
92604	925	72	95	444	1,536	0.4%
92606	703	41	67	283	1,094	0.3%
92610	211	19	3	61	294	0.1%
92612	710	54	18	298	1,080	0.3%
92614	746	45	52	352	1,195	0.3%
92617	169	7	0	23	199	0.1%
92618	296	17	13	78	404	0.1%
92620	1,089	49	63	414	1,615	0.4%
92624	271	118	2	39	430	0.1%
92625	139	4	1	48	192	0.1%
92626	2,124	1,338	239	410	4,111	1.1%
92627	2,242	5,346	49	395	8,032	2.2%
92629	533	423	5	97	1,058	0.3%
92630	1,825	2,053	102	403	4,383	1.2%
92637	392	7	2	172	573	0.2%
92646	1,425	95	163	281	1,964	0.5%
92647	2,534	2,928	745	439	6,646	1.8%
92648	1,418	347	117	325	2,207	0.6%
92649	779	232	78	150	1,239	0.3%
92651	320	71	2	109	502	0.1%
92653	804	778	17	241	1,840	0.5%
92655	608	421	1,408	214	2,651	0.7%
92656	922	457	31	312	1,722	0.5%
92657	79	1	9	35	124	0.0%
92660	327	14	9	88	438	0.1%
92661	54	0	0	13	67	0.0%
92662	19	0	0	10	29	0.0%
92663	413	66	2	65	546	0.1%
92672	1,015	1,059	3	150	2,227	0.6%
92673	486	385	8	74	953	0.3%
92675	796	2,613	4	165	3,578	1.0%
92676	23	19	0	3	45	0.0%
92677	1,352	549	22	566	2,489	0.7%
92679	331	45	6	63	445	0.1%

Table 2.2 (continued)
Orange County Medi-Cal Eligibles (December 2007)
By ZIP and Language Spoken At Home

ZIP Code	English	Spanish	Vietnamese	Other	Total	% of Medi-Cal Population
92683	4,592	3,073	11,312	1,356	20,333	5.5%
92688	953	541	16	198	1,708	0.5%
92691	1,237	644	34	349	2,264	0.6%
92692	857	386	31	366	1,640	0.4%
92694	254	52	8	93	407	0.1%
92697	0	0	0	0	0	0.0%
92701	2,796	13,038	156	584	16,574	4.5%
92703	4,005	13,744	2,300	775	20,824	5.6%
92704	4,317	14,007	2,386	809	21,519	5.8%
92705	1,732	2,643	70	180	4,625	1.3%
92706	1,977	5,745	313	343	8,378	2.3%
92707	3,023	9,390	325	548	13,286	3.6%
92708	1,868	276	1,623	606	4,373	1.2%
92780	2,818	3,954	237	479	7,488	2.0%
92782	450	82	36	116	684	0.2%
92801	5,554	6,905	637	885	13,981	3.8%
92802	3,105	5,176	625	500	9,406	2.6%
92804	7,229	6,898	1,724	1,473	17,324	4.7%
92805	4,307	11,183	275	708	16,473	4.5%
92806	2,313	2,550	204	388	5,455	1.5%
92807	1,241	328	61	243	1,873	0.5%
92808	421	41	41	171	674	0.2%
92821	995	442	15	205	1,657	0.4%
92823	74	11	10	16	111	0.0%
92831	1,428	1,530	78	252	3,288	0.9%
92832	1,495	2,336	102	360	4,293	1.2%
92833	2,821	2,171	212	693	5,897	1.6%
92835	669	261	13	167	1,110	0.3%
92840	3,153	3,939	2,691	720	10,503	2.8%
92841	2,153	1,815	2,591	523	7,082	1.9%
92843	2,725	4,135	4,664	672	12,196	3.3%
92844	1,434	1,009	3,253	496	6,192	1.7%
92845	468	64	64	89	685	0.2%
92861	76	6	7	32	121	0.0%
92862	0	0	0	0	0	0.0%
92865	800	1,077	67	126	2,070	0.6%
92866	681	798	25	138	1,642	0.4%
92867	1,427	2,955	146	228	4,756	1.3%
92868	1,432	1,343	304	421	3,500	0.9%
92869	1,201	2,247	197	271	3,916	1.1%
92870	2,108	2,726	112	348	5,294	1.4%
92886	921	190	40	225	1,376	0.4%
92887	359	32	27	84	502	0.1%
Non OC/Unk	9,481	2,668	383	2,183	14,715	4.0%
Total	133,262	163,521	42,417	29,375	368,575	100.0%

Orange County Medi-Cal Eligibles by ZIP Code of Residence December 2007

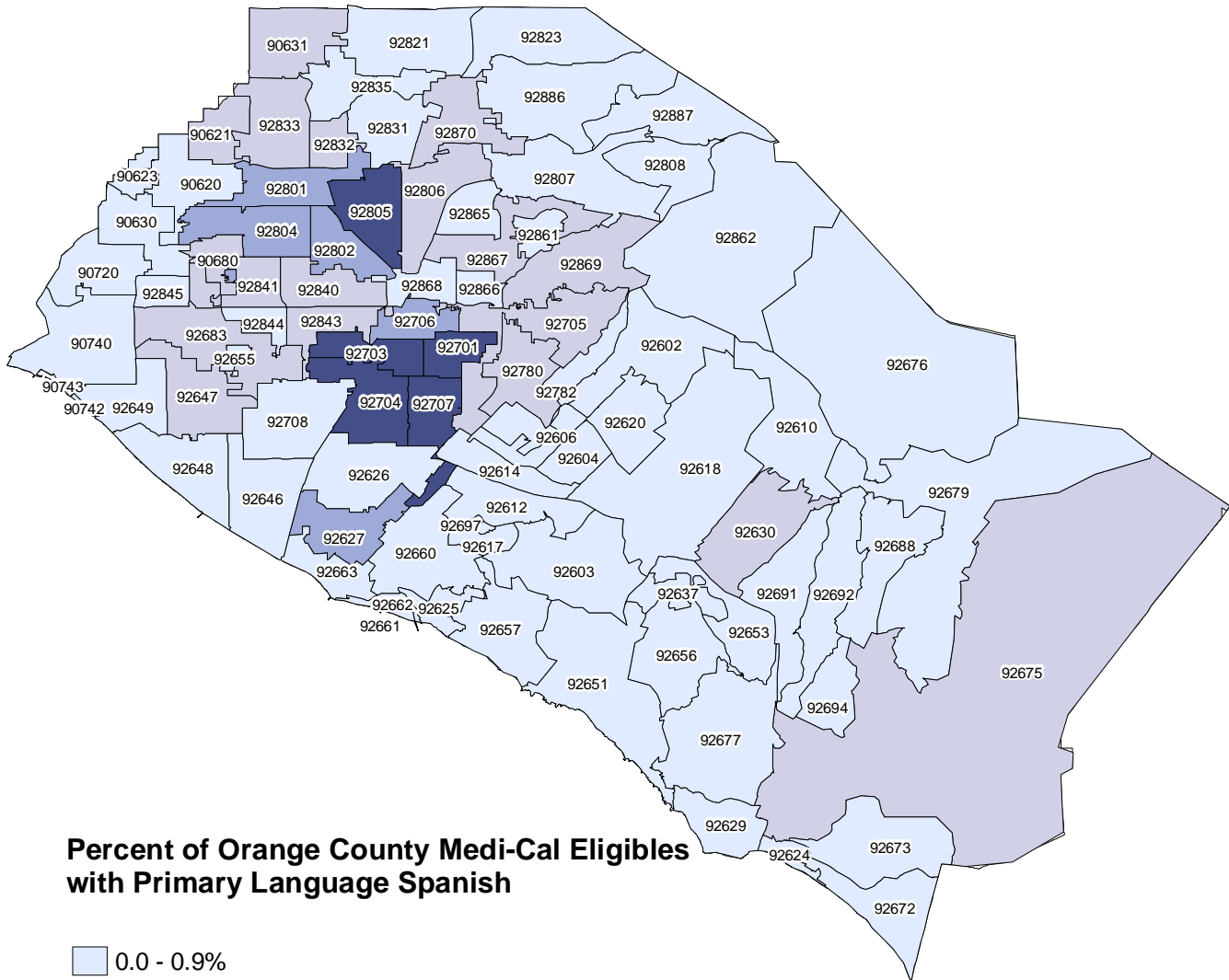


* The map does not display 4% (14,715/368,575) of Medi-Cal Eligibles with an unknown or a non OC Zip Code.

Quality Management, Orange County Health Care Agency, 2008

Data Source: CA Medical Eligibility Data System (MEDS) Extract, May 2008.

Orange County Medi-Cal Eligibles with Spanish as Primary Language by ZIP Code of Residence December 2007

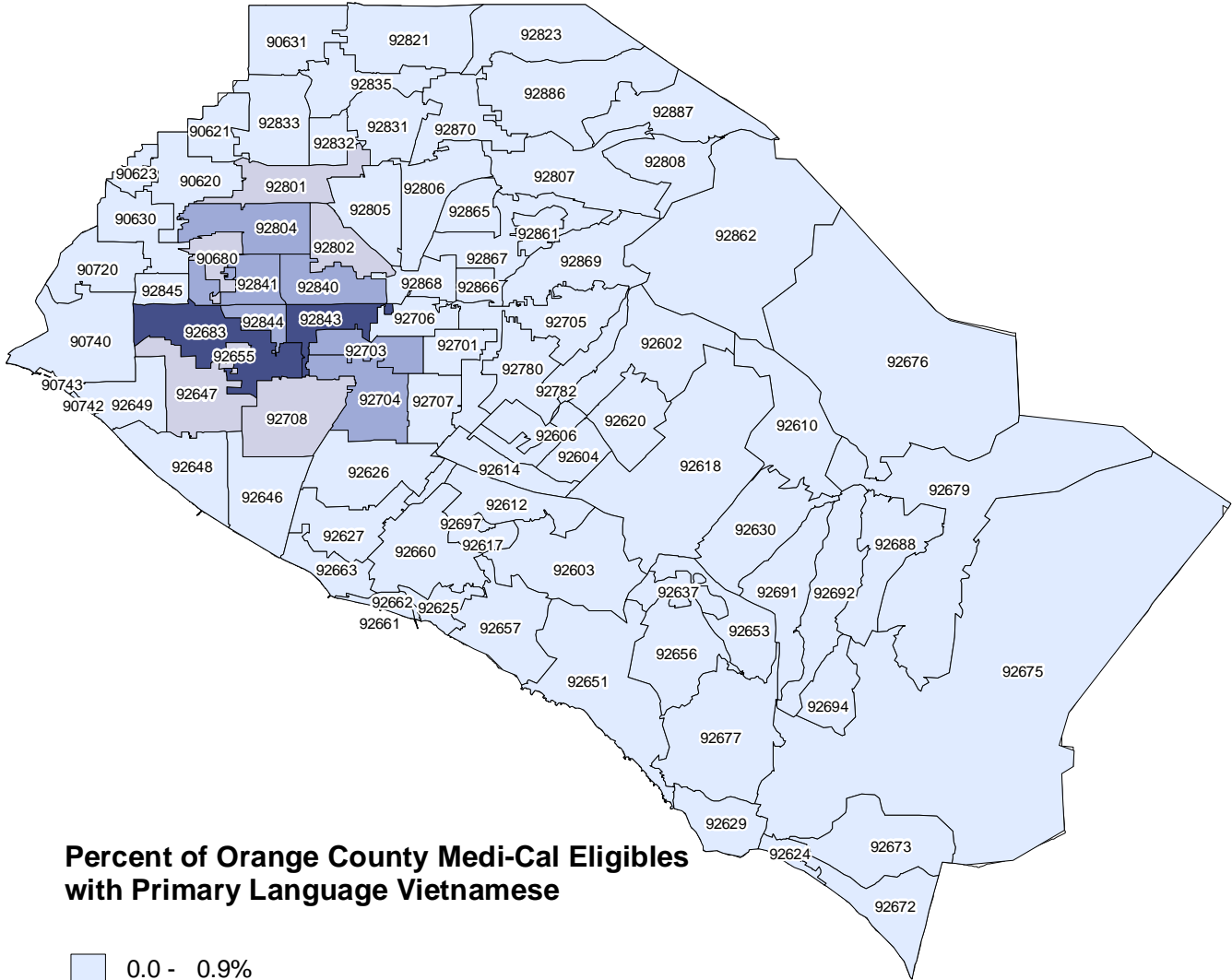


* The map does not display 1.6% (2,668 of 163,521) of Medi-Cal Eligibles with Spanish as Primary Language with an unknown or a non OC Zip Code.

Quality Management, Orange County Health Care Agency, 2008

Data Source: CA Medical Eligibility Data System (MEDS) Extract, May 2008.

Orange County Medi-Cal Eligibles with Vietnamese as Primary Language by ZIP Code of Residence December 2007



* The map does not display 0.9% (383/42,417) of Medi-Cal Eligibles with Vietnamese as Primary Language with an unknown or a non OC Zip Code.

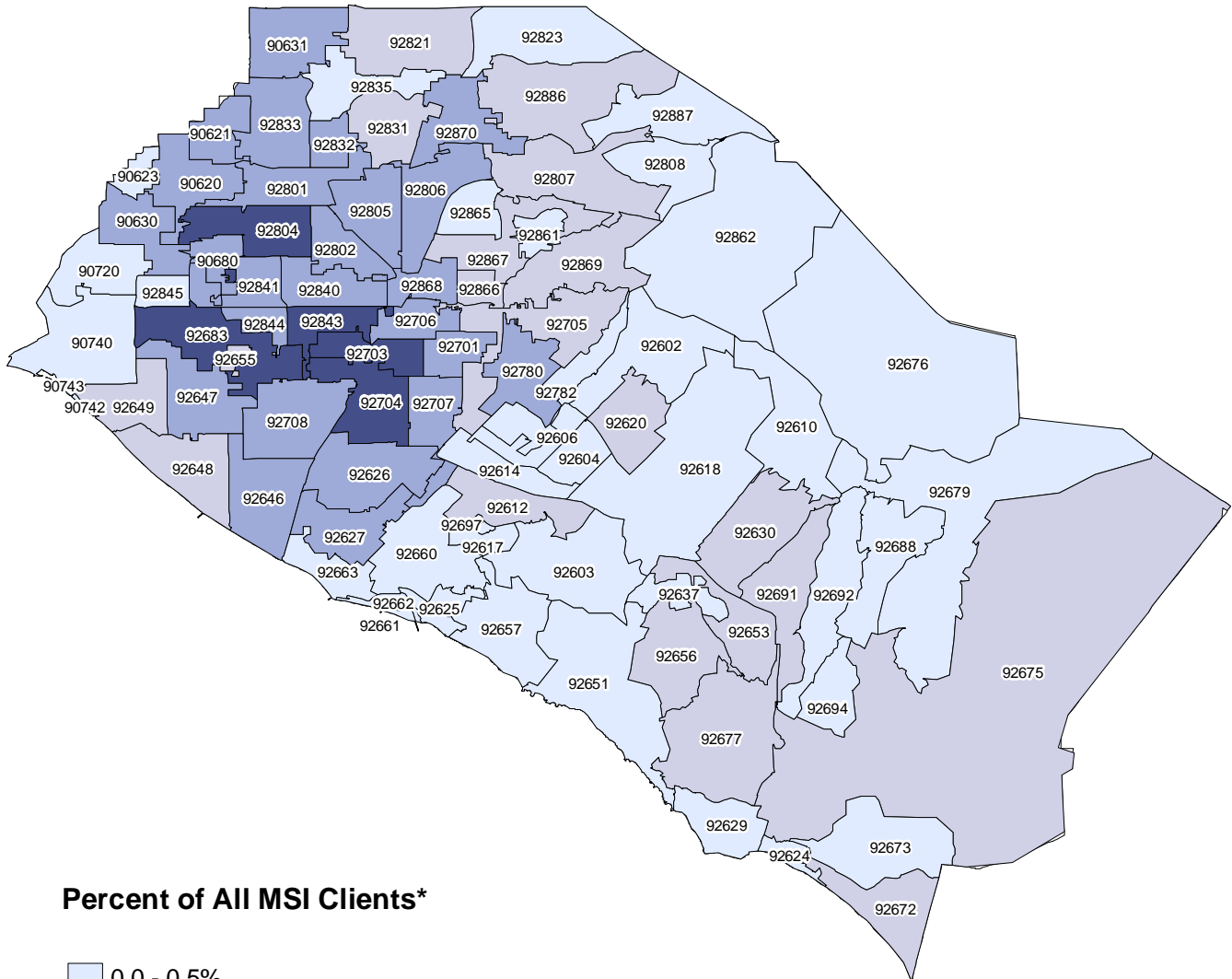
Quality Management, Orange County Health Care Agency, 2008

Data Source: CA Medical Eligibility Data System (MEDS) Extract, May 2008.

**Table 2.3
Orange County
Medical Services Initiative**

Zip Code	MSI Population	% MSI Population	Zip Code	MSI Population	% MSI Population
90620	290	1.9%	92677	124	0.8%
90621	168	1.1%	92679	22	0.1%
90623	32	0.2%	92683	1542	10.0%
90630	172	1.1%	92688	71	0.5%
90631	286	1.9%	92691	120	0.8%
90638	2	0.0%	92692	69	0.4%
90680	286	1.9%	92694	25	0.2%
90703	2	0.0%	92697	0	0.0%
90720	39	0.3%	92701	298	1.9%
90740	36	0.2%	92703	774	5.0%
90742	0	0.0%	92704	726	4.7%
90743	2	0.0%	92705	141	0.9%
90815	0	0.0%	92706	191	1.2%
92602	42	0.3%	92707	332	2.2%
92603	25	0.2%	92708	341	2.2%
92604	55	0.4%	92780	261	1.7%
92606	64	0.4%	92782	42	0.3%
92610	12	0.1%	92801	450	2.9%
92612	74	0.5%	92802	317	2.1%
92614	51	0.3%	92804	745	4.8%
92617	1	0.0%	92805	423	2.7%
92618	29	0.2%	92806	189	1.2%
92620	88	0.6%	92807	107	0.7%
92624	46	0.3%	92808	38	0.2%
92625	13	0.1%	92821	108	0.7%
92626	231	1.5%	92823	6	0.0%
92627	410	2.7%	92831	154	1.0%
92629	63	0.4%	92832	206	1.3%
92630	142	0.9%	92833	274	1.8%
92637	40	0.3%	92835	46	0.3%
92646	190	1.2%	92840	567	3.7%
92647	284	1.8%	92841	362	2.3%
92648	162	1.0%	92843	742	4.8%
92649	99	0.6%	92844	409	2.6%
92651	66	0.4%	92845	38	0.2%
92653	84	0.5%	92861	5	0.0%
92655	159	1.0%	92862	0	0.0%
92656	85	0.6%	92865	66	0.4%
92657	11	0.1%	92866	73	0.5%
92660	43	0.3%	92867	135	0.9%
92661	15	0.1%	92868	170	1.1%
92662	2	0.0%	92869	139	0.9%
92663	67	0.4%	92870	201	1.3%
92672	135	0.9%	92886	97	0.6%
92673	39	0.3%	92887	26	0.2%
92675	113	0.7%	Unknown		
92676	9	0.1%	Total	15,436	100%

Orange County Medical Services Initiative Population by ZIP Code of Residence April 2008

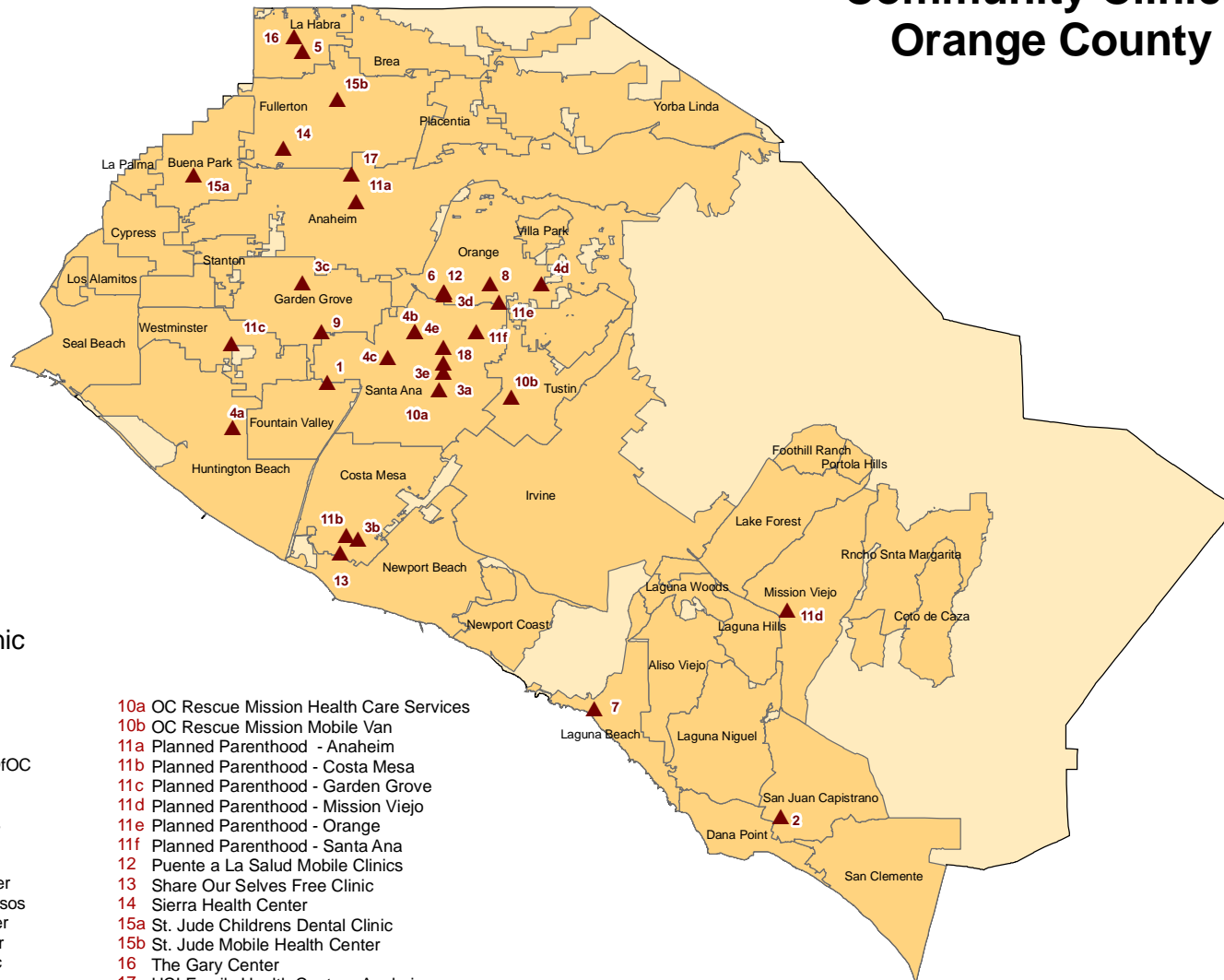


* The map does not display 2.6% of total clients (411/15,849) with either a PO Box address or a non-OC zip code.

Quality Management, Orange County Health Care Agency, 2008
Data Source: Advanced Medical Management (AMM) - April 2008



Community Clinics Orange County



▲ Community Clinic

- | | |
|---|--|
| 1 VNCOC Asian Health Center | 10a OC Rescue Mission Health Care Services |
| 2 Camino Health Center | 10b OC Rescue Mission Mobile Van |
| 3a CHOC - Boys and Girls Club SA | 11a Planned Parenthood - Anaheim |
| 3b CHOC - Costa Mesa | 11b Planned Parenthood - Costa Mesa |
| 3c CHOC - HealthySmilesForKidsOfOC | 11c Planned Parenthood - Garden Grove |
| 3d CHOC - Orange | 11d Planned Parenthood - Mission Viejo |
| 3e Clinica CHOC Para Ninos | 11e Planned Parenthood - Orange |
| 4a Community Care Health Centers | 11f Planned Parenthood - Santa Ana |
| 4b CCHC - Clinic for Women | 12 Puente a La Salud Mobile Clinics |
| 4c CCHC - Clinica Medica De Ella | 13 Share Our Selves Free Clinic |
| 4d CCHC - El Modena Health Center | 14 Sierra Health Center |
| 4e CCHC - First Steps/Primeros Pasos | 15a St. Jude Childrens Dental Clinic |
| 5 Friends of Children Health Center | 15b St. Jude Mobile Health Center |
| 6 La Amistad Family Health Center | 16 The Gary Center |
| 7 Laguna Beach Community Clinic | 17 UCI Family Health Center - Anaheim |
| 8 Lestonnac Free Clinic | 18 UCI Family Health Center - Santa Ana |
| 9 Nhan Hoa Comprehensive Health Care Clinic | |

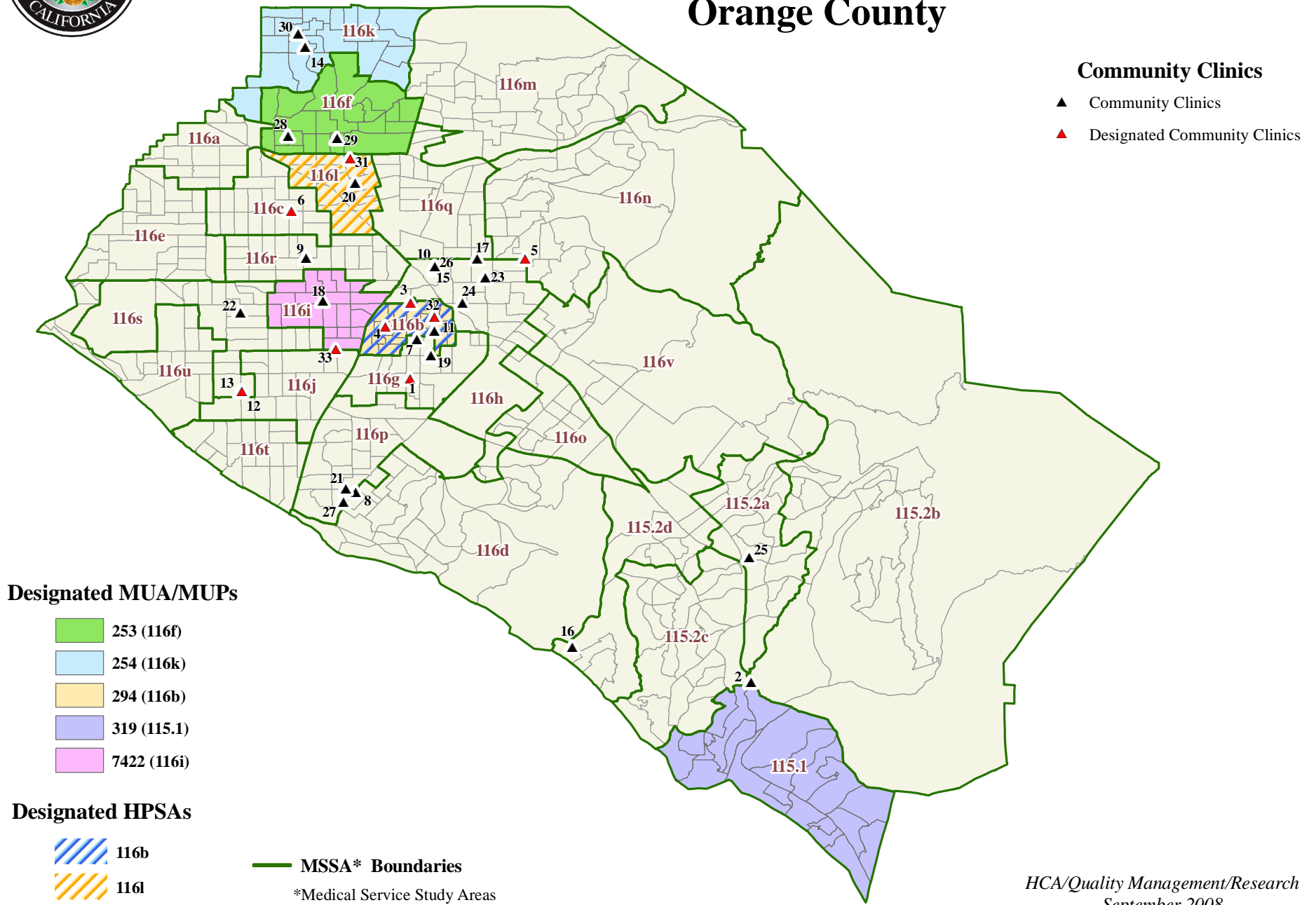
0 2.5 5 Miles



HCA/Quality Management/Research
July 2008



Medically Underserved Areas/Populations (MUA/MUP) Health Professional Shortage Areas (HPSA) Orange County



HCA/Quality Management/Research
September 2008

Label	NAME	ADDRESS	CITY	ZIPCODE	DESIGNATION
1	AltaMed Medical Group (Currently Clinica De Salud Medical Group)	1155 W. Central Ave.	Santa Ana	92707	FQHC*
2	Camino Health Center	30300 Camino Capistrano	San Juan Capistrano	92675	Applied for FQHC
3	CCHC - Clinic for Women-Primeros Pasos (Two clinics merged into single location)	1227 W. 17th St.	Santa Ana	92706	FQHC
4	CCHC - Clinica Medica De Ella	2223 W. 1st St.	Santa Ana	92703	FQHC
5	CCHC - El Modena Health Center	4010 E. Chapman Ave.	Orange	92869	FQHC
6	Central City Health Center	2235 W Ball Rd.	Anaheim	92804	FQHC
7	CHOC - Boys and Girls Club SA	1000 W. Highland	Santa Ana	92703	
8	CHOC - Costa Mesa	136 Broadway	Costa Mesa	92627	
9	CHOC - Healthy Smiles For Kids Of OC	10602 Chapman Ave.	Garden Grove	92840	
10	CHOC - Orange	455 S. Main St.	Orange	92868	
11	Clinica CHOC Para Ninos	406 S. Main St.	Santa Ana	92701	
12	Community Care Dental Center	17752 Beach Blvd.	Huntington Beach	92647	FQHC
13	Community Care Health Centers	8041 Newman Ave.	Huntington Beach	92647	FQHC
14	Friends of Children Health Center	301 W Las Lomas Dr.	La Habra	90631	
15	La Amistad Family Health Center	353 South Main St.	Orange	92868	
16	Laguna Beach Community Clinic	362 Third Street	Laguna Beach	92651	
17	Lestonnac Free Clinic	1215 East Chapman Ave.	Orange	92866	
18	Nhan Hoa Comprehensive Health Care Clinic	14221 Euclid Street, Ste. H	Garden Grove	92843	
19	OC Rescue Mission: Hurtt Family Health Clinic (Formerly Casa De Salud Family Health Clinic)	1515 S. Broadway, Suite A	Santa Ana	92707	
20	Planned Parenthood - Anaheim	303 W. Lincoln Ave. #105	Anaheim	92805	
21	Planned Parenthood - Costa Mesa	601 W. 19th St.	Costa Mesa	92627	
22	Planned Parenthood - Westminster	14372 Beach Blvd.	Westminster	92683	
23	Planned Parenthood - Orange	700 S. Tustin Ave	Orange	92866	
24	Planned Parenthood - Santa Ana	1421 E. 17th St.	Santa Ana	92705	
25	Planned Parenthood - Mission Viejo	26302 La Paz Ste. 103	Mission Viejo	92691	
26	Puente a La Salud Mobile Clinics	363 S. Main St #204	Orange	92868	
27	Share Our Selves Free Clinic (SOS)	1550 Superior Ave.	Costa Mesa	92627	
28	Sierra Health Center	501 S. Brookhurst	Fullerton	92833	
29	St. Jude Neighborhood Health Center	731 S. Highland Ave.	Fullerton	92832	
30	The Gary Center	341 Hillcrest St.	La Habra	90631	
31	UCI Family Health Center-Anaheim	300 W. Carl Karcher Way	Anaheim	92801	HPSA / FQHC
32	UCI Family Health Center-Santa Ana	800 N. Main St.	Santa Ana	92701	HPSA / FQHC
33	VNCOC Asian Health Center	5015 K-L West Edinger Ave.	Santa Ana	92704	FQHC-LAL

Changed Name/Location

* Will be designated Nov./Dec. 2008

Section 3: Hospitals and Hospitalization Data

Section 3

Hospitals and Hospitalization Data

Hospitals

The Hospital Association of Southern California (HASC) identified **33** active hospitals in Orange County in 2006. The number of hospitals reporting discharges to the state has remained relatively constant since the last installment of this report.

Nineteen HASC-member hospitals participated in the countywide health assessment. The map on the following page displays the location of participating and non-participating hospitals, by type (profit or not for profit).

Hospital Service Areas were developed for each hospital based on input from the hospitals and hospital discharge data for 2006. The hospital service areas were constructed at the ZIP code level. Contiguous geographic areas were constructed to the maximum extent possible. ZIP codes from outside Orange County or that denoted post office boxes were not considered.

A listing of hospitals that reported 2006 discharge data to the state is provided on the next page. The listing includes the address and indicates whether the hospital is “for profit” or “not for profit.” The first column indicates the number associated with the hospital in the map.

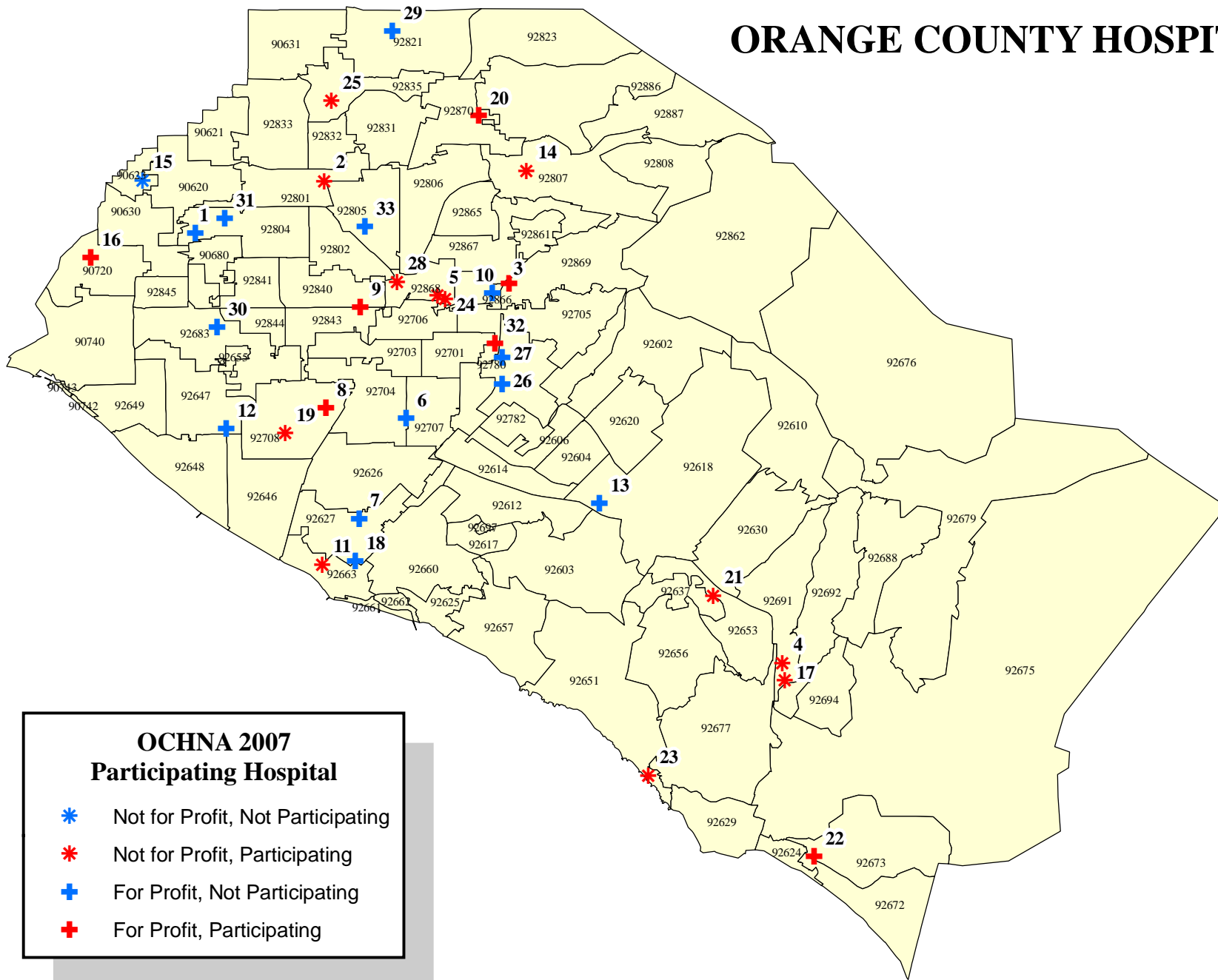
See Section 6, Hospital Discharges, for an analysis of the geographic distribution of hospitalizations and leading causes for hospitalization for different age groups and gender by the patient’s ZIP code of residence.

Orange County Hospitals

N	Hospital	Street	City	Zip	Profit
1	Anaheim General Hospital	3350 W. Ball Road	Anaheim	92804	P
2	Anaheim Memorial Medical Center	1111 W. La Palma Ave.	Anaheim	92801	N
3	Chapman Medical Center	2601 E. Chapman Ave.	Orange	92869	P
4	Children's Hospital at Mission	27700 Medical Center Rd.	Mission Viejo	92691	N
5	Children's Hospital of Orange County	455 S. Main St	Orange	92868	N
6	Coastal Communities Hospital	2701 S. Bristol St	Santa Ana	92704	P
7	College Hospital Costa Mesa	301 Victoria St	Costa Mesa	92627	P
8	Fountain Valley Regional Hospital and Medical Center	11250 Warner Ave.	Fountain Valley	92708	P
9	Garden Grove Hospital and Medical Center	12601 Garden Grove Blvd	Garden Grove	92843	P
10	Healthbridge Children's Rehab Hospital	393 S. Tustin St.	Orange	92866	P
11	Hoag Memorial Hospital Presbyterian	1 Hoag Drive	Newport Beach	92663	N
12	Huntington Beach Hospital and Medical Center	17772 Beach Blvd.	Huntington Beach	92647	P
13	Irvine Medical Center	16200 Sand Canyon Ave.	Irvine	92618	P
14	Kaiser Permanent Orange County	441 N. Lakeview Ave.	Anaheim	92807	N
15	La Palma Intercommunity Hospital	7901 Walker St.	La Palma	90623	N
16	Los Alamitos Medical Center	3751 Katella Ave.	Los Alamitos	90720	P
17	Mission Hospital Regional Medical Center	27700 Medical Center Rd.	Mission Viejo	92691	N
18	Newport Bay Hospital	1501 East 16 th St.	Newport Beach	92663	P
19	Orange Coast Memorial Medical Center	9920 Talbert Ave.	Fountain Valley	92708	N
20	Placentia Linda Hospital	1301 Rose Dr.	Placentia	92870	P
21	Saddleback Memorial Medical Center	24451 Health Center Dr.	Laguna Hills	92653	N
22	Saddleback Medical Center – San Clemente	654 Camino de Los Mares	San Clemente	92673	P
23	South Coast Medical Center	31872 Coast Hwy.	South Laguna	92651	N
24	St. Joseph Hospital	1100 W. Steward Dr.	Orange	92868	N
25	St. Jude Medical Center	101 E. Valencia Mesa Dr.	Fullerton	92835	N
26	Tustin Hospital Medical Center	14662 Newport Ave	Tustin	92780	P
27	Tustin Rehabilitation Hospital	14851 Yorba St.	Tustin	92780	P
28	University of California Irvine Medical Center	101 The City Drive South	Orange	92868	N
29	Vencor Hospital- Brea	875 N. Brea Blvd.	Brea	92621	P
30	Vencor Hospital-Orange County	200 Hospital Cir.	Westminster	92683	P
31	West Anaheim Medical Center	3033 W. Orange Ave.	Anaheim	92804	P
32	Western Medical Center, Santa Ana	1001 N. Tustin Ave.	Santa Ana	92705	P
33	Western Medical Center-Anaheim	1025 S. Anaheim Blvd.	Anaheim	92805	P

Note: P= For Profit N= Not for Profit

ORANGE COUNTY HOSPITALS



**OCHNA 2007
Participating Hospital**

- * Not for Profit, Not Participating
- * Not for Profit, Participating
- + For Profit, Not Participating
- + For Profit, Participating

Press the "Layers" icon located on the left of this screen to highlight the service area for the hospital of interest.

Orange County Short-Stay Hospitals and Emergency Medical Service Departments Hospitalization Data

The Office of Statewide Health Planning and Development (OSHPD) hospital discharge database is a record of discharges from short-stay hospitals across the state. (A short-stay is defined as an average stay of less than 30 days.)

Thirty-three Orange County short-stay hospitals reported discharges to the Office of Statewide Health Planning and Development (OSHPD) in 2006. The total number of discharges reported by Orange County hospitals was **320,280**. This count may include more than one stay for a particular patient and is called a duplicate count.

The hospital discharge database includes 27 items. This analysis provides information on 11 items including: age, sex, race, hospital, major diagnostic category, principal diagnosis, length of stay, payer, charges, discharge status, and record linkage number. Medical characteristics of discharges were classified by Major Diagnostic Categories (MDC) and by selected categories of principal diagnoses. Major Diagnostic Categories are mutually exclusive categories containing all possible principal diagnosis areas. The diagnoses in each MDC correspond generally to a single major organ system or etiology.

Two sets of tables were prepared in support of data requirements for the county health needs assessment. The first summarizes data on all reporting Orange County hospitals, and is contained in this section.

Highlights of the Tables

All Discharges (2006)

- Ten of the 33 reporting hospitals accounted for 62.9% percent of all discharges.
- Whites accounted for 57.3% of discharges, Hispanics for 26.35%, Asians for 10.2% and African Americans for 2.2%.
- Behavioral health (mental diseases and disorders and alcohol/drug use and alcohol/drug induced organic mental disorders) comprised 4.5% of all hospital discharges.
- There were 316 discharges for human immunodeficiency virus infections (HIV).

Birth Related Discharges (2006)

- Pregnancy and delivery accounted for more than 31 percent (31.6%) of all discharges. Twenty-eight (28) hospitals reported discharges in these categories.
- There were 10,662 more birth-related discharges for Hispanics (46,326) than for whites (35,664).

- Hoag Memorial Hospital Presbyterian reported both the most discharges (32,177) and the most birth-related discharges (10,840).

Non-Birth Related Discharges (2006)

- The number of non-birth related discharges in 2006 was 219,134 compared to 203,763 in 2000.
- Approximately 90% of discharges had a record linkage number. Seventy-four (74.0%) of these were unduplicated.
- Whites accounted for 68.7% of all non-birth related discharges, Hispanics for 17.1%, Asians for 8.5% and African Americans for 1.8%.
- Nearly forty-six percent (45.5%) of discharges were patients 65 years of age or older. Female discharges in this age group were 29.9% higher than for males. Discharges of patients under age 15 accounted for 6.7% of all discharges.
- In general, the hospitalization rate (per 1,000 population) was higher for females (69.8) than for males (62.8).
- Seventeen diagnostic categories as defined by the Centers for Disease Control and Prevention (CDC) constituted almost fifty-three (52.4%) percent of all discharges.
- Six diagnostic categories (heart disease, psychosis, malignant neoplasms, pneumonia, fractures and cerebrovascular disease in descending order) accounted for 32.9% of all discharges.
- The proportion of discharges for Hispanics was relatively high given the proportion of the Orange County Hispanic population. Diabetes Mellitus, Cholelithiasis and Acute Respiratory Infections ranked high in Hispanics compared to the rest of the population (6th, 7th and 11th compared to 11th, 13th and 16th respectively). Hispanics accounted for 43% of all hospitalizations due to acute respiratory infections in the county, 33% of Cholelithiasis (gallstones cases), and 30.1% of Diabetes Mellitus.
- Benign neoplasms and other neoplasms ranked 6th among Asians compared to 8th for all races.
- Psychosis, Heart Disease, Malignant Neoplasms and Cerebrovascular Disease ranked highest among African American patients.
- The average charge per day for all diagnoses was \$12,241 compared with \$6,148 in the year 2000), with charges for coronary atherosclerosis (\$33,399) being highest of all selected diagnosis categories (121% higher than in 2000).

- For all discharges the mean length of stay was 5.3 days, and the median length of stay was 3 days.
- The category of psychosis reported the highest mean (9.1 days) and median (6 days) length of stay and the lowest average charge per day (\$2,016) of all diagnostic categories.
- Taken together Medicare and Medi-Cal were the expected sources of payment for 55.1% of all discharges. Self-pay accounted for only 2.7% of all expected sources of payment.
- Total hospital charges for the year 2006 were \$10.06 billion, a 90% increase over 2000.
- Almost three percent (2.5%) of all hospitalizations resulted in death. Of the 5,525 deaths that occurred, 4,022 were of patients older than 64 years. Only 23 deaths were of children under 1 year of age.

The general tables covering all Orange County Short-Stay Hospitals are:

Table 3.1: Total Number of Hospital Discharges by Race/Ethnicity

Table 3.2: Discharges by Major Diagnostic Categories (MDC)

Table 3.3: Discharges for Major Diagnostic Categories (MDC) Related to Childbirth* by Race/Ethnicity

Table 3.4: Percent Distribution of Expected Source of Payment for Hospital Discharges Related to Child birth

Table 3.5: Number and Rate (per 100 Discharges with Record Link Number) of Unduplicated Discharges

Table 3.6: Number and Rate (per 1000 Population), Percent Distribution of Discharges* by Sex, Age, Race/Ethnicity

Table 3.7: Number of Discharges of Selected First-Listed Diagnoses by Race/Ethnicity

Table 3.8: Length of Stay (LOS), Charges per Day and Total Charges for Selected First-Listed Diagnoses

Table 3.9: Percent Distribution of Expected Source of Payment

Table 3.10: Percent Deaths by Hospital Discharge and Hospital Deaths by Age Group

**Table 3.1. Total Number of Hospital Discharges by Race/Ethnicity
Orange County Short-Stay Hospitals, 2006**

Hospital	Discharges		Race/Ethnicity				
	Number	%	White	Hispanic	Asian/PI	Black	Other/Unk
<i>All Hospitals:</i>	320,280	100	183,569	84,362	32,523	7,040	12,786
<i>Proportion of Discharges by Race/Ethnicity:</i>			57.3	26.3	10.2	2.2	4.0
<i>2006 OC Population Proportions by Race/Ethnicity:</i>			46.5	34.0	16.2	1.8	1.4
<i>Hoag Memorial Hospital Presbyterian</i>	32,177	10.0	25,370	2,866	2,332	272	1,337
<i>St. Joseph Hospital</i>	26,922	8.4	16,156	8,363	1,550	484	369
<i>Mission Hospital Regional Medical Center</i>	19,290	6.0	14,553	3,269	906	247	315
<i>Fountain Valley Regional Hospital and Medical Center</i>	19,047	5.9	5,106	4,486	8,542	225	688
<i>Saddleback Memorial Medical Center</i>	18,984	5.9	15,540	1,421	1,012	147	864
<i>University of California Irvine Medical Center</i>	18,089	5.6	9,513	5,943	1,933	627	73
<i>St. Jude Medical Center</i>	17,615	5.5	13,558	2,340	1,412	233	72
<i>Kaiser Foundation Hospital-Anaheim</i>	16,638	5.2	8,516	4,690	1,257	487	1,688
<i>Anaheim Memorial Medical Center</i>	16,522	5.2	8,291	5,614	1,530	371	716
<i>Western Medical Center</i>	16,117	5.0	5,094	9,596	877	226	324
<i>Orange Coast Memorial Medical Center</i>	13,191	4.1	7,940	2,401	1,741	225	884
<i>Irvine Medical Center</i>	11,254	3.5	7,401	1,418	1,800	237	398
<i>Los Alamitos Medical Center</i>	10,744	3.4	7,116	2,120	708	301	499
<i>Children Hospital of Orange County</i>	10,415	3.3	3,853	5,219	706	202	435
<i>Garden Grove Hospital and Medical Center</i>	10,305	3.2	1,822	6,494	1,748	96	145
<i>Western Medical Center Anaheim</i>	10,077	3.1	2,856	6,122	458	156	485
<i>Coastal Communities Hospital</i>	6,695	2.1	671	5,374	120	77	453
<i>West Anaheim Medical Center</i>	6,654	2.1	4,299	949	702	253	451
<i>La Palma Intercommunity Hospital</i>	5,683	1.8	2,111	1,176	1,462	237	697
<i>South Coast Medical Center</i>	5,585	1.7	4,950	209	111	21	294
<i>Huntington Beach Hospital and Medical Center</i>	4,618	1.4	3,262	369	352	107	528
<i>Placentia Linda Hospital</i>	4,085	1.3	3,344	455	116	52	118
<i>College Hospital Costa Mesa</i>	3,862	1.2	2,056	932	182	616	76
<i>Anaheim General Hospital</i>	3,206	1.0	1,271	978	395	150	412
<i>Chapman Medical Center</i>	2,634	0.8	1,913	452	66	98	105
<i>San Clemente Hospital and Medical Center</i>	2,525	0.8	2,301	106	26	17	75
<i>Children Hospital at Mission</i>	2,257	0.7	1,583	458	127	32	57
<i>Tustin Hospital Medical Center</i>	1,853	0.6	656	273	53	755	116
<i>Tustin Rehabilitation Hospital</i>	978	0.3	775	60	99	8	36
<i>Vencor Hospital-Orange County</i>	951	0.3	737	58	123	12	21
<i>Newport Bay Hospital</i>	838	0.3	652	89	31	54	12
<i>Vencor Hospital-Brea</i>	400	0.1	275	39	34	10	42
<i>Healthbridge Children's Rehab Hospital</i>	69	0.0	28	23	12	5	1

Information on hospital discharges is from the Office of Statewide Health Planning and Development (OSHPD) database.

Population estimates obtained from the State of California, Department of Finance, Sacramento, CA, July 2007.

Analysis is provided by the Office of Quality Management (QM) Research, Orange County Health Care Agency

**Table 3.2. Discharges by Major Diagnostic Categories (MDC)
Orange County Short-Stay Hospitals, 2006**

Categories	Number	%	Cumulative %
Pregnancy, Childbirth & the Puerperium	51,227	16.0	16.0
Newborns & Other Neonates with Conditions Originating in Prenatal Period	49,919	15.6	31.6
Diseases and Disorders of the Circulatory System	38,712	12.1	43.7
Diseases and Disorders of the Digestive System	27,399	8.6	52.2
Diseases and Disorders of the Respiratory System	23,435	7.3	59.5
Diseases and Disorders of the Musculoskeletal System & Connective Tissue	22,959	7.2	66.7
Diseases and Disorders of the Nervous System	17,081	5.3	72.0
Mental Diseases & Disorders	14,479	4.5	76.6
Diseases and Disorders of the Kidney and Urinary Tract	10,490	3.3	79.8
Endocrine, Nutritional & Metabolic Diseases & Disorders	9,545	3.0	82.8
Diseases and Disorders of the Hepatobiliary System & Pancreas	9,018	2.8	85.6
Infectious & Parasitic Disease, Systemic or Unspecified Sites	7,874	2.5	88.1
Diseases and Disorders of the Female Reproductive System	7,586	2.4	90.5
Diseases and Disorders of the Skin, Subcutaneous Tissue and Breast	6,904	2.2	92.6
Injuries, Poisonings & Toxic Effects of Drugs	4,073	1.3	93.9
Alcohol, Drug Use & Alcohol/Drug Induced Organic Mental Disorders	4,038	1.3	95.1
Diseases and Disorders of the Ear, Nose, Mouth and Throat	3,528	1.1	96.2
Factors Influencing Health Status & Other Contacts with Health Services	3,015	0.9	97.2
Diseases and Disorders of Blood, Blood Forming Organs & Immunological Disorders	2,959	0.9	98.1
Myeloproliferative Disease & Disorders, and Poorly Differentiated Neoplasms	2,564	0.8	98.9
Diseases and Disorders of the Male Reproductive System	1,648	0.5	99.4
Multiple Significant Trauma	657	0.2	99.6
Diseases and Disorders of the Eye	477	0.1	99.8
Burns	370	0.1	99.9
Human Immunodeficiency Virus Infections	323	0.1	100.0
Total	320,280	100.0	100.0

Information on hospital discharges is from the Office of Statewide Health Planning and Development (OSHPD) database.
Analysis is provided by the Office of Quality Management (QM) Research, Orange County Health Care Agency

**Table 3.3. Discharges for Major Diagnostic Categories (MDC)
Related to Childbirth* by Race/Ethnicity
Orange County Short-Stay Hospitals, 2006**

Hospital	All	White	Hispanic	Asian/PI	Black	Other Unknown
All Hospitals	101,146	35,664	46,326	14,066	1,230	3,860
Hoag Memorial Hospital Presbyterian	10,840	7,019	1,647	1,458	91	625
St. Joseph Hospital	10,752	4,567	5,073	871	144	97
Western Medical Center	7,880	687	6,693	335	48	117
Fountain Valley Regional Hospital and Medical Center	7,400	850	2,120	4,226	44	160
Kaiser Foundation Hospital-Anaheim	7,093	2,196	2,960	811	175	951
Garden Grove Hospital and Medical Center	6,459	320	5,335	729	27	48
Mission Hospital Regional Medical Center	6,373	3,601	2,143	443	64	122
Saddleback Memorial Medical Center	5,907	4,132	796	626	43	310
Western Medical Center Anaheim	5,665	350	4,967	203	42	103
St. Jude Medical Center	4,642	3,224	854	479	50	35
Coastal Communities Hospital	4,412	50	4,202	26	6	128
Anaheim Memorial Medical Center	4,203	860	2,409	662	74	198
Irvine Medical Center	3,973	1,908	787	1,085	64	129
University of California Irvine Medical Center	3,583	1,296	1,919	242	116	10
Los Alamitos Medical Center	3,475	1,327	1,516	416	126	90
Orange Coast Memorial Medical Center	3,253	1,201	1,128	704	41	179
La Palma Intercommunity Hospital	1,514	221	467	533	38	255
South Coast Medical Center	1,468	1,102	162	64	2	138
Children Hospital of Orange County	1,051	400	518	68	20	45
Anaheim General Hospital	759	97	502	51	7	102
Children Hospital at Mission	344	221	80	29	3	11
West Anaheim Medical Center	43	17	19	2	2	3
Huntington Beach Hospital and Medical Center	20	4	10	2	1	3
Placentia Linda Hospital	16	7	8	0	1	0
Chapman Medical Center	10	2	7	0	1	0
San Clemente Hospital and Medical Center	6	4	1	0	0	1
Tustin Hospital Medical Center	4	1	3	0	0	0
Tustin Rehabilitation Hospital	1	0	0	1	0	0

* The two MDC categories related to childbirth are "pregnancy, childbirth and the puerperium" (MDC 14) and "newborns and other neonates with conditions originating in the perinatal period" (MDC 15).

Information on hospital discharges is from the Office of Statewide Health Planning and Development (OSHPD) database.

Analysis is provided by the Office of Quality Management (QM) Research, Orange County Health Care Agency

**Table 3.4. Percent Distribution of Expected Source of Payment for
Hospital Discharges Related to Childbirth
Orange County Short-Stay Hospitals, 2006**

Hospital	Number	Payer			
		Medi-Cal	Private	Self-Pay	Other
<i>All Hospitals:</i>	101,146	41,195	55,841	1,529	2,581
<i>Percent:</i>	100	40.7	55.2	1.5	2.6
Hoag Memorial Hospital Presbyterian	10,840	9.1	89.6	0.7	0.6
St. Joseph Hospital	10,752	38.2	60.4	0.6	0.7
Western Medical Center	7,880	76.7	12.9	0.6	9.8
Fountain Valley Regional Hospital and Medical Center	7,400	44.4	50.9	1.5	3.3
Kaiser Foundation Hospital-Anaheim	7,093	3.6	95.0	1.1	0.3
Garden Grove Hospital and Medical Center	6,459	85.3	11.5	2.5	0.8
Mission Hospital Regional Medical Center	6,373	37.2	58.4	1.9	2.5
Saddleback Memorial Medical Center	5,907	6.7	90.7	0.9	1.6
Western Medical Center Anaheim	5,665	91.2	3.0	0.4	5.5
St. Jude Medical Center	4,642	9.8	87.7	1.3	1.2
Coastal Communities Hospital	4,412	90.8	6.4	2.3	0.5
Anaheim Memorial Medical Center	4,202	38.1	53.9	4.9	3.1
Irvine Medical Center	3,973	1.7	95.6	0.5	2.2
University of California Irvine Medical Center	3,581	73.3	21.1	3.2	2.5
Los Alamitos Medical Center	3,475	39.6	54.1	0.0	6.3
Orange Coast Memorial Medical Center	3,253	14.1	82.1	1.8	2.0
La Palma Intercommunity Hospital	1,514	50.3	42.7	6.7	0.3
South Coast Medical Center	1,468	28.3	67.4	2.9	1.5
Children Hospital of Orange County	1,051	52.4	43.1	0.6	3.9
Anaheim General Hospital	759	85.0	4.5	10.0	0.5
Children Hospital at Mission	344	20.6	66.3	0.3	12.8
West Anaheim Medical Center	43	53.5	44.2	0.0	2.3
Huntington Beach Hospital and Medical Center	20	70.0	25.0	5.0	0.0
Placentia Linda Hospital	16	43.8	43.8	12.5	0.0
Chapman Medical Center	10	40.0	40.0	10.0	10.0
San Clemente Hospital and Medical Center	6	33.3	66.7	0.0	0.0
Tustin Hospital Medical Center	4	25.0	25.0	25.0	25.0
Tustin Rehabilitation Hospital	1	0.0	100.0	0.0	0.0

* The two MDC categories related to childbirth are "pregnancy, childbirth and the puerperium" (MDC 14) and "newborns and other neonates with conditions originating in the perinatal period" (MDC 15).

Information on hospital discharges is from the Office of Statewide Health Planning and Development (OSHPD) database.

Analysis is provided by the Office of Quality Management (QM) Research, Orange County Health Care Agency

**Table 3.5. Number and Percent of Unduplicated Discharges
Orange County Short-Stay Hospitals, 2006**

Hospitals	Total	Record Link Number		Number		Percent
		Number With	% Without	Unique	Duplicate	Unduplicated*
All Hospitals	219,134	197,359	9.9	100,009	35,181	74.0
Hoag Memorial Hospital Presbyterian	21,337	20,699	3.0	12,820	3,084	80.6
St. Joseph Hospital	16,170	15,485	4.2	9,384	2,335	80.1
University of California Irvine Medical Center	14,506	11,907	17.9	6,898	1,823	79.1
Saddleback Memorial Medical Center	13,077	12,818	2.0	7,327	2,173	77.1
St. Jude Medical Center	12,973	12,499	3.7	7,092	2,137	76.8
Mission Hospital Regional Medical Center	12,917	12,270	5.0	7,389	1,919	79.4
Anaheim Memorial Medical Center	12,319	11,327	8.1	7,013	1,718	80.3
Fountain Valley Regional Hospital and Medical Center	11,647	10,341	11.2	6,084	1,604	79.1
Orange Coast Memorial Medical Center	9,938	9,641	3.0	6,380	1,284	83.2
Kaiser Foundation Hospital-Anaheim	9,545	9,123	4.4	6,010	1,233	83.0
Children Hospital of Orange County	9,364	3,161	66.2	1,694	467	78.4
Western Medical Center	8,237	6,691	18.8	4,480	864	83.8
Irvine Medical Center	7,281	6,787	6.8	5,112	683	88.2
Los Alamitos Medical Center	7,269	7,115	2.1	4,266	1,124	79.1
West Anaheim Medical Center	6,611	6,323	4.4	3,731	989	79.0
Huntington Beach Hospital and Medical Center	4,598	4,448	3.3	2,970	577	83.7
Western Medical Center Anaheim	4,412	3,752	15.0	2,484	520	82.7
La Palma Intercommunity Hospital	4,169	3,950	5.3	2,565	536	82.7
South Coast Medical Center	4,117	4,013	2.5	2,678	550	83.0
Placentia Linda Hospital	4,069	3,938	3.2	2,609	540	82.9
College Hospital Costa Mesa	3,862	3,604	6.7	2,445	447	84.5
Garden Grove Hospital and Medical Center	3,846	3,208	16.6	2,064	473	81.4
Chapman Medical Center	2,624	2,306	12.1	1,600	294	84.5
San Clemente Hospital and Medical Center	2,519	2,409	4.4	1,591	331	82.8
Anaheim General Hospital	2,447	2,279	6.9	1,203	385	75.8
Coastal Communities Hospital	2,283	1,833	19.7	1,125	286	79.7
Children Hospital at Mission	1,913	486	74.6	400	36	91.7
Tustin Hospital Medical Center	1,849	1,792	3.1	916	317	74.3
Tustin Rehabilitation Hospital	977	936	4.2	815	59	93.2
Vencor Hospital-Orange County	951	943	0.8	748	88	89.5
Newport Bay Hospital	838	838	0.0	487	151	76.3
Vencor Hospital-Brea	400	394	1.5	320	35	90.1
Healthbridge Children's Rehab Hospital	69	43	37.7	27	7	79.4

* The analysis is per hospital. Some patients go to more than one hospital during the year.

Information on hospital discharges is from the Office of Statewide Health Planning and Development (OSHPD) database. Discharges related to childbirth, as identified by Major Diagnostic Categories (MDC) 14 and 15 are not included in this table. Analysis is provided by the Office of Quality Management (QM) Research, Orange County Health Care Agency

**Table 3.6. Orange County Number, Hospitalization Rate (per 1,000 population)
Percent Distribution of Discharges by Sex, Age, Race/Ethnicity
Orange County Short-Stay Hospitals, 2006**

Sex and Age		Rate	Percent	Race/Ethnicity				
Male				<i>White</i>	<i>Hispanic</i>	<i>Asian/PI</i>	<i>Black</i>	<i>Other/Unk</i>
All Ages	97,406	62.8	47.2	65,555	17,563	8,466	1,855	3,967
Under 15 Years	7,720	22.8	3.7	3,170	3,339	768	121	322
Under 1 Year	2,064	91.2	1.0	720	1,046	193	23	82
1-4 Years	2,725	24.5	1.3	1,067	1,140	342	50	126
5-14 Years	2,931	14.3	1.4	1,383	1,153	233	48	114
15-44 Years	19,981	28.1	9.7	11,429	5,621	1,462	577	892
15-19 Years	2,884	24.7	1.4	1,639	884	184	62	115
20-24 Years	2,680	24.0	1.3	1,433	853	186	73	135
25-34 Years	5,476	24.4	2.7	2,898	1,739	441	159	239
35-44 Years	8,941	34.8	4.3	5,459	2,145	651	283	403
45-64 Years	28,848	78.9	14.0	20,071	4,502	2,303	742	1,230
45-54 Years	13,703	62.8	6.6	9,369	2,369	963	412	590
55-64 Years	15,145	102.8	7.3	10,702	2,133	1,340	330	640
65 Years and Over	40,857	299.2	19.8	30,885	4,101	3,933	415	1,523
65-74 Years	15,663	196.2	7.6	11,158	1,960	1,636	251	658
75-84 Years	17,356	395.8	8.4	13,397	1,581	1,599	133	646
Over 85 Years	7,838	610.1	3.8	6,330	560	698	31	219
Female								
All Ages	109,070	69.8	52.8	76,290	17,656	9,170	1,871	4,083
Under 15 Years	6,077	18.8	2.9	2,569	2,575	585	116	232
Under 1 Year	1,504	69.1	0.7	534	764	134	18	54
1-4 Years	2,224	20.8	1.1	936	910	245	46	87
5-14 Years	2,349	12.0	1.1	1,099	901	206	52	91
15-44 Years	20,961	31.0	10.2	12,459	5,318	1,696	611	877
15-19 Years	2,384	21.5	1.2	1,380	700	173	50	81
20-24 Years	2,333	22.8	1.1	1,377	602	179	77	98
25-34 Years	5,575	26.3	2.7	3,029	1,701	444	138	263
35-44 Years	10,669	42.6	5.2	6,673	2,315	900	346	435
45-64 Years	28,941	75.9	14.0	20,194	4,576	2,335	688	1,148
45-54 Years	14,526	65.6	7.0	9,861	2,599	1,147	370	549
55-64 Years	14,415	90.4	7.0	10,333	1,977	1,188	318	599
65 Years and Over	53,091	292.3	25.7	41,068	5,187	4,554	456	1,826
65-74 Years	16,345	178.9	7.9	11,615	2,148	1,703	193	686
75-84 Years	21,982	348.7	10.6	17,217	2,053	1,805	168	739
Over 85 Years	14,764	543.3	7.2	12,236	986	1,046	95	401

Information on hospital discharges is from the Office of Statewide Health Planning and Development (OSHPD) database. Discharges related to childbirth, as identified by Major Diagnostic Categories (MDC) 14 and 15 are not included in this table. Analysis is provided by the Office of Quality Management (QM) Research, Orange County Health Care Agency

**Table 3.7. Number of Discharges for Selected Diagnoses by Race/Ethnicity
Orange County Short-Stay Hospitals, 2006**

Diagnostic Category	Race/Ethnicity					
	All	White	Hispanic	Asian/PI	Black	Other/Unk
<i>All conditions</i>	219,134	147,905	38,036	18,457	5,810	8,926
<i>Heart Disease</i>	25,229	18,558	2,945	2,129	461	1,136
<i>Acute Myocardial Infarction</i>	4,245	3,044	532	368	56	245
<i>Coronary Atherosclerosis</i>	5,536	4,021	565	559	74	317
<i>Other Ischemic Heart Disease</i>	609	442	79	41	11	36
<i>Cardiac Dysrhythmias</i>	5,164	4,013	482	427	68	174
<i>Congestive Heart Failure</i>	5,509	3,943	778	447	122	219
<i>Malignant Neoplasms</i>	10,057	6,967	1,363	1,207	171	349
<i>Large Intestine and Rectum</i>	1,211	848	130	162	27	44
<i>Trachea, bronchus and lung</i>	1,106	853	87	117	23	26
<i>Breast</i>	663	471	64	89	9	30
<i>Prostate</i>	678	511	83	46	17	21
<i>Psychosis</i>	14,785	9,868	2,254	744	920	999
<i>Pneumonia</i>	7,357	4,833	1,347	775	138	264
<i>Fractures</i>	7,727	5,575	1,272	486	97	297
<i>Neck of Femur</i>	2,373	1,968	157	158	7	83
<i>Cerebrovascular Disease</i>	7,009	4,901	929	763	149	267
<i>Arthropathies and Related Disorders</i>	6,226	4,881	682	254	111	298
<i>Diabetes Mellitus</i>	3,280	1,810	986	240	143	101
<i>Asthma</i>	1,997	1,115	475	203	109	95
<i>Cholelithiasis</i>	3,317	1,768	1,095	291	45	118
<i>Benign Neoplasms and Other Neoplasms</i>	4,181	2,473	831	565	138	174
<i>Intervertebral Disc. Disorders</i>	2,481	1,989	255	110	48	79
<i>Acute Respiratory Infections</i>	1,789	774	770	129	45	71
<i>Noninfectious Enteritis and Colitis</i>	2,368	1,622	370	226	64	86
<i>Urinary Tract Infections, Unspecified Sit</i>	2,718	2,004	346	234	48	86
<i>Cellulitis and Abscess</i>	3,827	2,610	804	173	101	139
<i>All Other Diagnoses</i>	114,786	76,157	21,312	9,928	3,022	4,367

Information on hospital discharges is from the Office of Statewide Health Planning and Development (OSHPD) database. Discharges related to childbirth, as identified by Major Diagnostic Categories (MDC) 14 and 15 are not included in this table. Analysis is provided by the Office of Quality Management (QM) Research, Orange County Health Care Agency

**Table 3.8. Length of Stay, Charges per Day, and Total Charges for Selected Diagnoses
Orange County Short-Stay Hospitals, Orange County, 2006**

Diagnostic Category	All Discharges	Discharges with Length of Stay of More than one Day				
		Number	Length of Stay (days)		Charges per Day	Total Charges
			Mean	Median		
All conditions	219,134	204,029	5.3	3.0	\$ 12,241	\$ 10,058,622,926
<i>Heart Disease</i>	25,229	23,943	4.1	3.0	\$ 20,124	\$ 1,461,945,253
<i>Acute Myocardial Infarction</i>	4,245	4,000	4.8	3.0	\$ 22,007	\$ 349,505,340
<i>Coronary Atherosclerosis</i>	5,536	5,332	3.1	2.0	\$ 33,399	\$ 403,453,620
<i>Other Ischemic Heart Disease</i>	609	543	2.0	1.0	\$ 21,565	\$ 17,790,904
<i>Cardiac Dysrhythmias</i>	5,164	4,844	3.0	2.0	\$ 17,277	\$ 190,860,019
<i>Congestive Heart Failure</i>	5,509	5,296	4.6	3.0	\$ 11,974	\$ 228,789,673
<i>Malignant Neoplasms</i>	10,057	9,267	6.7	4.0	\$ 14,112	\$ 719,900,959
<i>Large Intestine and Rectum</i>	1,211	1,136	7.9	6.0	\$ 10,932	\$ 94,374,654
<i>Trachea, bronchus and lung</i>	1,106	1,000	7.1	5.0	\$ 11,647	\$ 75,872,445
<i>Breast</i>	663	628	2.4	2.0	\$ 20,454	\$ 25,642,092
<i>Prostate</i>	678	655	2.8	2.0	\$ 25,934	\$ 31,908,167
<i>Psychosis</i>	14,785	14,456	9.1	6.0	\$ 2,957	\$ 341,606,756
<i>Pneumonia</i>	7,357	7,003	5.9	4.0	\$ 8,211	\$ 328,114,030
<i>Fractures</i>	7,727	6,914	4.8	3.0	\$ 14,805	\$ 429,365,031
<i>Neck of Femur</i>	2,373	2,166	5.9	5.0	\$ 10,950	\$ 125,474,462
<i>Cerebrovascular Disease</i>	7,009	6,437	5.1	3.0	\$ 12,801	\$ 347,366,087
<i>Arthropathies and Related Disorders</i>	6,226	6,111	3.9	3.0	\$ 15,227	\$ 318,450,184
<i>Diabetes Mellitus</i>	3,280	2,951	4.7	3.0	\$ 8,786	\$ 117,593,583
<i>Asthma</i>	1,997	1,878	3.4	2.0	\$ 7,748	\$ 47,228,969
<i>Cholelithiasis</i>	3,317	3,082	3.6	3.0	\$ 14,655	\$ 133,880,438
<i>Benign Neoplasms and Other Neoplasms</i>	4,181	3,872	3.2	3.0	\$ 14,866	\$ 154,300,904
<i>Intervertebral Disc. Disorders</i>	2,481	2,344	3.3	3.0	\$ 27,801	\$ 177,821,229
<i>Acute Respiratory Infections</i>	1,789	1,658	3.1	2.0	\$ 7,417	\$ 38,688,188
<i>Noninfectious Enteritis and Colitis</i>	2,368	2,175	4.4	3.0	\$ 8,623	\$ 82,341,819
<i>Urinary Tract Infections, Unspecified Site</i>	2,718	2,607	4.5	3.0	\$ 7,222	\$ 72,342,633
<i>Cellulitis and Abscess</i>	3,827	3,523	4.6	3.0	\$ 6,892	\$ 104,626,037
<i>All Other Diagnoses</i>	114,786	105,808	5.3	3.0	\$ 11,572	\$ 5,183,050,826

Information on hospital discharges is from the Office of Statewide Health Planning and Development (OSHPD) database.

Discharges related to childbirth, as identified by Major Diagnostic Categories (MDC) 14 and 15 are not included in this table.

Analysis is provided by the Office of Quality Management (QM) Research, Orange County Health Care Agency

**Table 3.9. Percent Distribution of Expected Source of Payment
Orange County Short-Stay Hospitals, 2006**

Hospitals	Discharges	Payer				
		Medicare	Medi-Cal	Private	Self-Pay	Other
All Hospitals	219,110	43.4	11.7	35.7	2.7	6.5
Hoag Memorial Hospital Presbyterian	21,333	50.1	2.1	41.5	2.4	3.9
St. Joseph Hospital	16,170	32.9	8.6	53.3	0.6	4.6
University of California Irvine Medical Center	14,503	28.0	24.5	26.9	8.6	12.0
Saddleback Memorial Medical Center	13,072	70.1	1.3	25.7	1.1	1.8
St. Jude Medical Center	12,973	55.9	4.1	34.6	2.2	3.2
Mission Hospital Regional Medical Center	12,917	47.0	4.9	39.7	3.1	5.4
Anaheim Memorial Medical Center	12,311	41.3	7.6	43.7	3.5	3.9
Fountain Valley Regional Hospital and Medical Center	11,647	44.0	18.8	26.6	2.3	8.3
Orange Coast Memorial Medical Center	9,938	46.5	3.1	47.1	1.4	1.8
Kaiser Foundation Hospital-Anaheim	9,545	41.8	2.4	52.9	2.6	0.3
Children Hospital of Orange County	9,364	0.3	50.3	43.8	1.1	4.5
Western Medical Center	8,237	33.3	17.1	24.0	1.7	23.9
Irvine Medical Center	7,281	45.8	2.3	46.6	0.5	4.8
Los Alamitos Medical Center	7,269	67.5	4.4	24.2	0.0	3.9
West Anaheim Medical Center	6,611	50.9	11.3	28.3	2.6	6.8
Huntington Beach Hospital and Medical Center	4,598	43.0	15.9	30.2	3.8	7.2
Western Medical Center Anaheim	4,412	30.3	19.5	11.8	1.2	37.2
La Palma Intercommunity Hospital	4,169	41.9	18.0	34.3	2.7	3.1
South Coast Medical Center	4,117	40.0	1.3	47.7	8.5	2.5
Placentia Linda Hospital	4,069	55.9	3.9	30.5	1.9	7.8
College Hospital Costa Mesa	3,862	14.5	53.9	25.5	3.1	3.0
Garden Grove Hospital and Medical Center	3,844	39.3	22.8	22.2	2.0	13.7
Chapman Medical Center	2,624	34.5	5.3	41.9	4.4	13.8
San Clemente Hospital and Medical Center	2,519	63.1	2.3	25.0	4.0	5.6
Anaheim General Hospital	2,447	60.6	22.1	6.7	7.4	3.1
Coastal Communities Hospital	2,283	51.1	23.2	11.4	6.9	7.4
Children Hospital at Mission	1,913	-	15.1	75.1	2.8	7.0
Tustin Hospital Medical Center	1,849	33.5	40.5	7.0	4.2	14.9
Tustin Rehabilitation Hospital	977	66.6	5.0	23.0	0.3	5.0
Vencor Hospital-Orange County	951	85.3	2.2	12.3	-	0.2
Newport Bay Hospital	838	95.3	-	2.5	0.4	1.8
Vencor Hospital-Brea	398	88.9	5.0	5.8	-	0.3
Healthbridge Children's Rehab Hospital	69	-	20.3	78.3	-	1.4

Information on hospital discharges is from the Office of Statewide Health Planning and Development (OSHPD) database.

Discharges related to childbirth, as identified by Major Diagnostic Categories (MDC) 14 and 15 are not included in this table.

Analysis is provided by the Office of Quality Management (QM) Research, Orange County Health Care Agency

**Table 3.10. Percent Deaths by Hospital Discharge and Hospital Deaths by Age Group
Orange County Short-Stay Hospitals, 2006**

Hospital	Percent Deaths	Total Discharges	Total Deaths	Age at Death			
				Under 1 Year	1 to 29 Years	30 to 64 Years	65+ Years
All Hospitals	2.5	219,134	5,525	23	159	1,321	4,022
Vencor Hospital-Orange County	25.9 *	951	246	-	1	19	226
Vencor Hospital-Brea	21.5 *	400	86	-	-	12	74
Healthbridge Children's Rehab Hospital	4.3	69	3	-	3	-	-
Coastal Communities Hospital	4.3	2,283	99	-	2	34	63
Garden Grove Hospital and Medical Center	3.7	3,846	143	-	3	30	110
West Anaheim Medical Center	3.6	6,611	237	-	1	53	183
Los Alamitos Medical Center	3.6	7,269	259	-	1	44	214
Anaheim General Hospital	3.3	2,447	81	-	-	26	55
Western Medical Center	3.3	8,237	271	-	19	84	168
Saddleback Memorial Medical Center	2.8	13,077	366	-	3	49	314
Hoag Memorial Hospital Presbyterian	2.6	21,337	555	-	1	111	443
St. Jude Medical Center	2.6	12,973	333	-	-	84	249
Huntington Beach Hospital and Medical Center	2.5	4,598	114	-	-	26	88
San Clemente Hospital and Medical Center	2.5	2,519	62	-	2	10	50
Anaheim Memorial Medical Center	2.5	12,319	302	-	4	71	227
Orange Coast Memorial Medical Center	2.4	9,938	243	-	-	50	193
St. Joseph Hospital	2.4	16,170	394	-	9	127	258
Fountain Valley Regional Hospital and Medical Center	2.4	11,647	278	-	3	78	197
Mission Hospital Regional Medical Center	2.3	12,917	302	-	9	62	231
Kaiser Foundation Hospital-Anaheim	2.3	9,545	223	1	7	75	140
University of California Irvine Medical Center	2.3	14,506	337	2	34	137	164
Chapman Medical Center	2.3	2,624	60	-	-	17	43
Placentia Linda Hospital	2.2	4,069	89	-	1	22	66
La Palma Intercommunity Hospital	2.2	4,169	90	-	1	28	61
Irvine Medical Center	1.9	7,281	138	-	4	29	105
South Coast Medical Center	1.6	4,117	66	-	-	15	51
Western Medical Center Anaheim	1.5	4,412	66	-	2	23	41
Children Hospital of Orange County	0.7	9,364	65	20	45	-	-
Tustin Hospital Medical Center	0.6	1,849	12	-	1	5	6
Newport Bay Hospital	0.2	838	2	-	-	-	2
Children Hospital at Mission	0.2	1,913	3	-	3	-	-
College Hospital Costa Mesa	0.0	3,862	-	-	-	-	-
Tustin Rehabilitation Hospital	0.0	977	-	-	-	-	-

* The percent of deaths for this facility reflects a higher proportion of terminally ill patients being admitted.

Information on hospital discharges is from the Office of Statewide Health Planning and Development (OSHPD) database. Discharges related to childbirth, as identified by Major Diagnostic Categories (MDC) 14 and 15 are not included in this table. Analysis is provided by the Office of Quality Management (QM) Research, Orange County Health Care Agency

Section 4: Morbidity Indicators

Section 4

Morbidity Indicators

Morbidity

The Orange County morbidity files contain data on communicable diseases. These data, by law, are reportable to the local health officer and the State Health Department on a regular basis. The information is then channeled to the Centers for Disease Control (CDC) in Atlanta, and eventually to the World Health Organization (WHO) for inclusion in international statistics. Effective control of communicable disease requires that health officials know the nature and extent of health problems in their jurisdiction so that appropriate actions can be taken. The reporting of disease that originates with physicians and laboratories forms the basis for action by public health officials.

The morbidity indicators used in this report to determine the health status of the community with regard to communicable diseases are HIV/AIDS, Tuberculosis, Chlamydia, Chronic Hepatitis-B, Chronic Hepatitis-C, Staph Infection, and Gonococcal Disease.

AIDS (Acquired Immunodeficiency Syndrome) – AIDS is a severe disease syndrome representing the late clinical stage of HIV (human immunodeficiency virus). HIV is principally transmitted sexually, parenterally (getting infected by blood contact, e.g., dentist's office, surgery, blood transfusion, needle exchange) or perinatally (when infection is passed on from mother to the infant during conception and delivery). The principal target of HIV is the immune system. When HIV infection becomes advanced, the disease is referred to as AIDS. This stage is characterized by the appearance of opportunistic infections that typically attack weak immune systems. Most persons who are at risk of infection are sexually active young men and women who have unprotected sex. HIV is more prevalent in men who have sex with other men (MSM). However, the largest increases in rates of reported AIDS cases in recent years have been among women and minority populations.

The three-year summary crude rate of reported incidence of HIV/AIDS in Orange County from 2005 through 2007 is 17.95 per 100,000 population. There are 1,649 new cases of HIV/AIDS during this time period, 675 (41%) of which meet the criteria for AIDS. For those ZIP codes where rates are calculated, the crude rate ranges from 4.14 to 115.70 per 100,000 population, with ZIP codes in the city of Santa Ana and Laguna Beach having the highest rates of disease reported. African Americans have the highest crude rate among Orange County residents at 71.60 new cases per 100,000 population, approximately 4 times greater than that for whites (crude rate 18.14). Rates of HIV/AIDS are six times greater in males (30.79) than in females (5.08).

Tuberculosis (TB) – TB is a highly infectious disease caused by a species of mycobacterium. It is characterized by the formation of tubercles in tissues. Manifestation of the disease varies widely and has a great tendency to become chronic. Although the lung is the major seat of disease, any organ may be affected. The disease is spread through the air from one person to another. The bacteria are put into the air when a person with active TB disease of the lungs or throat coughs or sneezes. People nearby may breathe in these bacteria and become infected.

The three-year summary crude rate of reported TB incidence in Orange County is 7.46 per 100,000 population for 2005 through 2007. This is consistent with the statewide average rate of 7.82 per 100,000 for 2004-2006.¹ The national reported rate of Tuberculosis for 2006 is 4.6 per 100,000 population. The Healthy People 2010 target goal is 1.0 new case per 100,000.³ The highest rates of TB cases are concentrated in the northwest area of Orange County. Asian Pacific Islanders (crude rate: 29.29) are disproportionately affected by TB in Orange County and have a crude rate approximately 23 times higher than that of whites (1.25). The second highest rate of TB is among African Americans (11.43), followed by Hispanics (6.25).

Chlamydia - Chlamydia is a sexually transmitted infection (STI) caused by the bacterium *Chlamydia trachomatis*. Chlamydia remains the most commonly reported infectious disease in the United States. This infection is very common among young adults and teenagers. However, many infected people do not know that they have Chlamydia, because they have no symptoms. About 75% of infected women and half of infected men do not have any symptoms. When left untreated, Chlamydia can increase the risk of acquiring or transmitting HIV, the virus that causes AIDS. In women, untreated Chlamydia can spread into the pelvic area and infect the uterus, fallopian tubes, and ovaries, leading to pelvic inflammatory disease (PID). PID can cause permanent damage to the woman's reproductive organs and can lead to infertility, chronic pelvic pain, and an increased risk of ectopic pregnancy. In men, if Chlamydia is left untreated, related complications can lead to infertility.

The national rate of reported Chlamydia in 2006 was 347.8 cases per 100,000 population, an increase of 5.6 percent from 2005 (329.4).⁴ The three-year (2004-2006) summary rate for California is 350.6 per 100,000.¹ Chlamydia is common among all races and ethnic groups; however, African-American women are disproportionately affected in the United States. In 2006, the rate of reported Chlamydia per 100,000 black females (1,760.9) was more than seven times that of white females (237.0) and more than twice that of Hispanic females (761.3).⁴

In Orange County, the three-year (2005, 2006 & 2007) summary crude rate for newly reported Chlamydia cases is 262.4 per 100,000 population. African Americans (crude rate: 317.7) and Hispanics (438.5) have the highest rates of disease in the County. Rates of disease within this population are approximately three and four times higher, respectively, than that of non-Hispanic whites (96.8).

Rates of reported cases among women (377.9) are approximately 2.5 times greater than that of men (142.2). Chlamydia rates are highest in the north central area of Orange County.

Gonococcal Infections – Gonococcal infection or gonorrhea is a sexually transmitted infection (STI) caused by the bacterium *Neisseria gonorrhoeae*. Gonorrhea is the second most commonly reported infectious disease in the United States, with 358,366 cases reported in 2006.⁴ Like Chlamydia, Gonorrhea is substantially under diagnosed and underreported, is a major cause of PID, and increases one's risk of acquiring HIV.

Drug resistance is an increasingly important concern in the treatment and prevention of Gonorrhea. CDC monitors trends in gonorrhea drug resistance. Overall, 13.8 percent of gonorrhea isolates tested in 2006 demonstrated resistance to fluoroquinolones, a leading class of antibiotics previously recommended to treat the disease.⁴

The rate of reported Gonorrhea in the United States was 120.9 cases per 100,000 population in 2006.⁴ The reported three-year summary crude rate for gonococcal infections (2005 through 2007) for Orange County is 35.8 new cases per 100,000 population, which is greater than the Healthy People 2010 target goal of 19 new cases per 100,000 population³, but lower than the statewide average of 88.71 (years 2004-2006).¹ In Orange County, African Americans (crude rate: 86.8) and Hispanics (45.8) have the highest rate of reported cases. Rates of disease in these populations are approximately four and two times greater than that of whites (20.8), respectively.

In the United States racial disparities are more pronounced for Gonorrhea than any other disease. The national Gonorrhea rate among African Americans was 18 times greater than that for whites in 2006 (658.4 per 100,000 vs. 36.5 per 100,000), and African Americans accounted for 69 percent of reported cases of Gonorrhea.⁴

Hepatitis B – Hepatitis B is a serious disease caused by a virus that attacks the liver. Infection with the Hepatitis B virus (HBV), can cause lifelong (chronic) infection, cirrhosis (scarring) of the liver, liver cancer, liver failure, and death. Major modes of HBV transmission include sexual or household contact with an infected person, perinatal transmission from mother to infant, intravenous drug use and nosocomial exposure. For those with acute HBV infection, the risk of developing chronic infection decreases with age, with approximately 90% of infants infected at birth developing chronic disease, compared to 1% -10% of older children and adults. A vaccine is available for all age groups to prevent infection by this virus.

The three-year (2005 through 2007) summary crude rate of newly reported chronic Hepatitis B cases in Orange County is 34.3. For those Zip codes where rates were calculated the crude rate ranges from 5.1 to 224.8. Two main clusters of high rate ZIP codes can be found in Orange County. One is located in the northwest area of the County and the other is in central Orange County. Asian Pacific Islanders are disproportionately impacted by chronic hepatitis B infection in Orange County. Asian Pacific Islanders (crude rate: 58.9) account for 37 percent of all newly reported cases, and have an overall rate that is 44 times higher than that of whites (crude rate 1.3).

Hepatitis C- Hepatitis C (HCV) is also a liver disease with similar clinical presentations as hepatitis B. Onset of symptoms can include anorexia, vague abdominal discomfort, nausea and vomiting. However, progression to jaundice is less frequent than with hepatitis B. Although initial infection may be asymptomatic (more than 90% of cases) or mild, a high percentage (between 50% and 80%) will develop a chronic infection. Of these chronically infected persons, about half will eventually develop cirrhosis or cancer of the liver. HCV is primarily parenterally transmitted. Sexual transmission has been documented to occur but is far less efficient or frequent than the parenteral route. Most infections are due to illegal injection drug use. No vaccine is available to prevent Hepatitis C.

In Orange County the reported three-year summary crude rate, from 2005 through 2007, is 5.3 new cases of chronic HCV per 100,000 population. The highest concentration of new cases is located in the northwest area of the County. Blacks (crude rate: 7.6) have the highest rate of disease, with rates 2.4 times greater than that of whites (3.2).

Staphylococcal Disease or Staph Infection - *Staphylococcus aureus*, which causes most staph infections, is a common bacterium found on the skin and in the nose of up to 25% of healthy people and

animals. Staph infection can result when the skin is punctured and staph bacteria are allowed to enter causing infection. Usually the resulting skin lesions are uncomplicated; however, introduction into the bloodstream may lead to serious complications, including pneumonia, sepsis and meningitis. Autoinfection is responsible for at least one third of infections. Persons with a draining lesion are the most common source disease spread.

Methicillin-resistant *Staphylococcus aureus* (MRSA) is a type of bacteria that is resistant to certain antibiotics. These antibiotics include methicillin and other more common antibiotics such as oxacillin, penicillin and amoxicillin. Staph infections, including MRSA, occur most frequently among persons in hospitals and healthcare facilities (such as nursing homes and dialysis centers) who have weakened immune systems. MRSA infections that occur in otherwise healthy people who have not been recently (within the past year) hospitalized or had a medical procedure (such as dialysis, surgery, catheters) are known as community-associated (CA)-MRSA infections.

Effective February 13, 2008, severe *S. aureus* infections, resulting in death or admission to an intensive care unit of a person without history of hospitalization, surgery, dialysis, or residency in a long-term care facility in the past year, and without an indwelling catheter or percutaneous medical device the time of culture, are reportable in California. For more information about reporting, see the February 2008 issue of *CD Connection*, available at ochealthinfo.com/epi/cd_news.

In the present report, data on staph infections was obtained from patient discharge data through the Office of Statewide Health Planning and Development. Note that the three-year summary crude rate for hospital discharges of Orange County residents with any diagnosis of *S. aureus* (ICD-9 diagnosis code 041.11) is 128.4 per 100,000 population for years 2004 through 2006. This figure may include multiple hospitalizations by the same patient, and consists of both resistant and nonresistant, as well as community and hospital acquired staph infections. Rates were highest among Blacks (crude rate 182.8 per 100,000), followed by whites (175.8), then Hispanics (71.9), and lastly Asian Pacific Islanders (48.8).

Morbidity Data

The following pages contain tables and maps for each of the morbidity indicators discussed above. These tables and maps display the crude morbidity rates for each geographic ZIP code area in Orange County. Rates and occurrences from post office box zip codes and community areas wholly contained within a geographic ZIP code are attributed to the larger geographic ZIP code. ZIP code and Race/Ethnicity population data was obtained from different sources and contained different population estimates. Therefore, slight discrepancies between the countywide crude rate reported in the ZIP code tables and those reported in the Race/Ethnicity tables are possible.

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Citations

¹California Department of Public Health. County Health Status Profiles, 2008

²CDC. MMWR Morb Wkly Report. 2007; 56(11); 245-250

³DDH. Healthy People 2010. August 2008. <http://www.healthypeople.gov/>

⁴ CDC. STD Surveillance 2006. August 2008. <http://www.cdc.gov/std/stats/trends2006.htm>

Table 4.1: HIV/AIDS Cases by Race/Ethnicity (2005-2007)

Source: HARS Reporting System

Race/Ethnicity	Year			3 Year Total	3 Year Average	2006 Population	Crude Rate*
	2005	2006	2007				
White	249	199	338	786	262.0	1,444,413	18.1
Hispanic	214	201	251	666	222.0	1,040,486	21.3
Black	37	20	37	94	31.3	43,759	71.6
Asian Pacific Islander	19	28	38	85	28.3	479,118	5.9
Unknown/Other	8	5	5	18	6.0	70,619	-
Total	527	453	669	1,649	549.7	3,078,395	17.9

* Rate is per 100,000 population.

Report year is the year the case was originally reported, not when it was re-reported with a name, if applicable.

Table 4.2: HIV/AIDS Cases by Gender (2005-2007)

Source: HARS Reporting System

Race/Ethnicity	Year			3 Year Total	3 Year Average	2006 Population	Crude Rate*
	2005	2006	2007				
Male	457	382	574	1413	471.0	1,529,602	30.8
Female	70	71	95	236	78.7	1,548,793	5.1
Total	527	453	669	1,649	549.7	3,078,395	17.9

* Rate is per 100,000 population.

Report year is the year the case was originally reported, not when it was re-reported with a name, if applicable.

Source of Population: California Department of Finance

Table 4.3: Tuberculosis Cases by Race/Ethnicity (2005-2007)

Source: Tuberculosis Information Management System

Race/Ethnicity	Year			3 Year Total	3 Year Average	2006 Population	Crude Rate*
	2005	2006	2007				
White	21	20	13	54	18.0	1,444,413	1.2
Hispanic	68	64	63	195	65.0	1,040,486	6.2
Asian Pacific Islander	147	139	135	421	140.3	479,118	29.3
Black	6	3	6	15	5.0	43,758	11.4
Unknown/Other						70,620	-
Total	242	226	217	685	228.3	3,078,395	7.4

* Rate is per 100,000 population

Table 4.4: Tuberculosis Cases by Gender (2005-2007)

Source: Tuberculosis Information Management System

Gender	Year			3 Year Total	3 Year Average	2006 Population	Crude Rate*
	2005	2006	2007				
Male	145	124	127	396	132.0	1,529,602	8.6
Female	97	102	90	289	96.3	1,548,793	6.2
Total	242	226	217	685	228.3	3,078,395	7.4

* Rate is per 100,000 population

Source of Population: California Department of Finance

Table 4.5: Chlamydia Cases By Race/Ethnicity (2005-2007)

	2005	2006	2007	3-yr. Total	3-yr. Average	2006	
						Population	Crude Rate*
White	1,509	861	1,823	4,193	1397.7	1,444,413	96.8
Hispanic	4,332	4,587	4,767	13,686	4562.0	1,040,486	438.4
Black	187	148	82	417	139.0	43,759	317.6
Asian Pacific Islander	540	482	525	1,547	515.7	479,118	107.6
Other/Unknown	1,245	1,891	1,125	4,261	1420.3	70,619	-
Total	7,813	7,969	8,322	24,104	8,034.7	3,078,395	261.0

* Rate is per 100,000 population

Table 4.6: Chlamydia Cases By Gender (2005-2007)

	2005	2006	2007	3-yr. Total	3-yr. Average	2006	
						Population	Crude Rate*
Male	2,102	2,168	2,256	6,526	2175.3	1,529,602	142.2
Female	5,704	5,793	6,061	17,558	5852.7	1,548,793	377.9
Other/Unknown	7	8	5	20	6.7	-	-
Total	7,813	7,969	8,322	24,104	8034.7	3,078,395	261.0

* Rate is per 100,000 population

Source of Population: California Department of Finance

Table 4.7: Chronic Hepatitis B Cases By Race/Ethnicity (2005-2007)

	2005	2006	2007	3-yr. Total	3-yr. Average	2006 Population	Crude Rate*
White	17	30	11	58	19.3	1,444,413	1.3
Hispanic	40	90	54	184	61.3	1,040,486	5.9
Black	2	4	4	10	3.3	43,759	7.6
Asian Pacific Islander	314	419	115	848	282.7	479,118	59.0
Other/Unknown	391	985	674	2,050	683.3	70,619	-
Total	764	1,528	858	3,150	1050.0	3,078,395	34.1

* Rate is per 100,000 population

Table 4.8: Chronic Hepatitis B Cases by Gender (2005-2007)

	2005	2006	2007	3-yr. Total	3-yr. Average	2006 Population	Crude Rate*
Male	245	824	322	1,391	463.7	1,529,602	30.3
Female	519	703	530	1,752	584.0	1,548,793	37.7
Other/Unknown	0	1	6	7	2.3		-
Total	764	1,528	858	3,150	1050.0	3,078,395	34.1

* Rate is per 100,000 population

From September of 2004 through October 2005 and July 2007 to present, Epidemiology & Assessment stopped reporting chronic Hepatitis B except for cases that meet selected criteria.

Table 4.9: Chronic Hepatitis C Cases by Race/Ethnicity (2005-2007)

	2005	2006	2007	3-yr. Total	3-yr. Average	2006 Population	Crude Rate*
White	22	62	54	138	46.0	1,444,413	3.2
Hispanic	30	50	42	122	40.7	1,040,486	3.9
Black	5	4	1	10	3.3	43,759	7.6
Asian Pacific Islander	10	18	15	43	14.3	479,118	3.0
Other/Unknown	58	58	58	174	58.0	70,619	-
Total	125	192	170	487	162.3	3,078,395	5.3

* Rate is per 100,000 population

Table 4.10: Chronic Hepatitis C Cases by Gender (2005-2007)

	2005	2006	2007	3-yr. Total	3-yr. Average	2006 Population	Crude Rate*
Male	81	119	100	300	100.0	1,529,602	6.5
Female	44	73	62	179	59.7	1,548,793	3.9
Other/Unknown	0	0	8	8	2.7		-
Total	125	192	170	487	162.3	3,078,395	5.3

* Rate is per 100,000 population

In September of 2004, Epidemiology & Assessment stopped reporting chronic Hepatitis C cases except those that meet select criteria.

Table 4.11: Gonococcal Infection Cases by Race/Ethnicity (2005-2007)

	2005	2006	2007	3-yr. Total	3-yr. Average	2006	
						Population	Crude Rate*
White	395	191	315	901	300.3	1,444,413	20.8
Hispanic	506	464	461	1,431	477.0	1,040,486	45.8
Black	57	38	19	114	38.0	43,759	86.8
Asian Pacific Islander	61	31	37	129	43.0	479,118	9.0
Other/Unknown	224	324	164	712	237.3	70,619	-
Total	1,243	1,048	996	3,287	1,095.7	3,078,395	35.6

* Rate is per 100,000 population

Table 4.12: Gonococcal Infection Cases by Gender (2005-2007)

	2005	2006	2007	3-yr. Total	3-yr. Average	2006	
						Population	Crude Rate*
Male	713	594	591	1,898	632.7	1,529,602	41.4
Female	529	452	400	1,381	460.3	1,548,793	29.7
Other/Unknown	1	2	4	7	2.3		
Total	1,243	1,048	995	3,286	1,095.3	3,078,395	35.6

* Rate is per 100,000 population

Table 4.13: Hospitalizations with Staph Diagnosis by Race/Ethnicity (2004-2006)

Race/Ethnicity	Year			3 Year Total	3 Year Average	2005 Population	Crude Rate*
	2004	2005	2006				
White	2,594	2,435	2,632	7,661	2553.7	1540603	165.8
Hispanic	660	746	792	2,198	732.7	966664	75.8
Asian Pacific Islander	221	222	251	694	231.3	450995	51.3
Black	73	92	74	239	79.7	47134	169.0
Other/Unknown	255	328	332	915	305.0	9416	-
Total	3,803	3,823	4,081	11,707	3,902	3,014,812	129.4

*Rate is per 100,000 population

Table 4.14: Hospitalizations with Staph Diagnosis by Gender (2004-2006)

Gender	Year			3 Year Total	3 Year Average	2005 Population	Crude Rate*
	2004	2005	2006				
Male	2,169	2,150	2,237	6,556	2185.3	1,524,783	143.3
Female	1,634	1,673	1,844	5,151	1717.0	1,490,029	115.2
Total	3,803	3,823	4,081	11,707	3902.3	3,014,812	129.4

*Rate is per 100,000 population

Source of Population: California Department of Finance

Table 4.15
Orange County
HIV/AIDS Cases by ZIP Code of Residence, 2005-2007

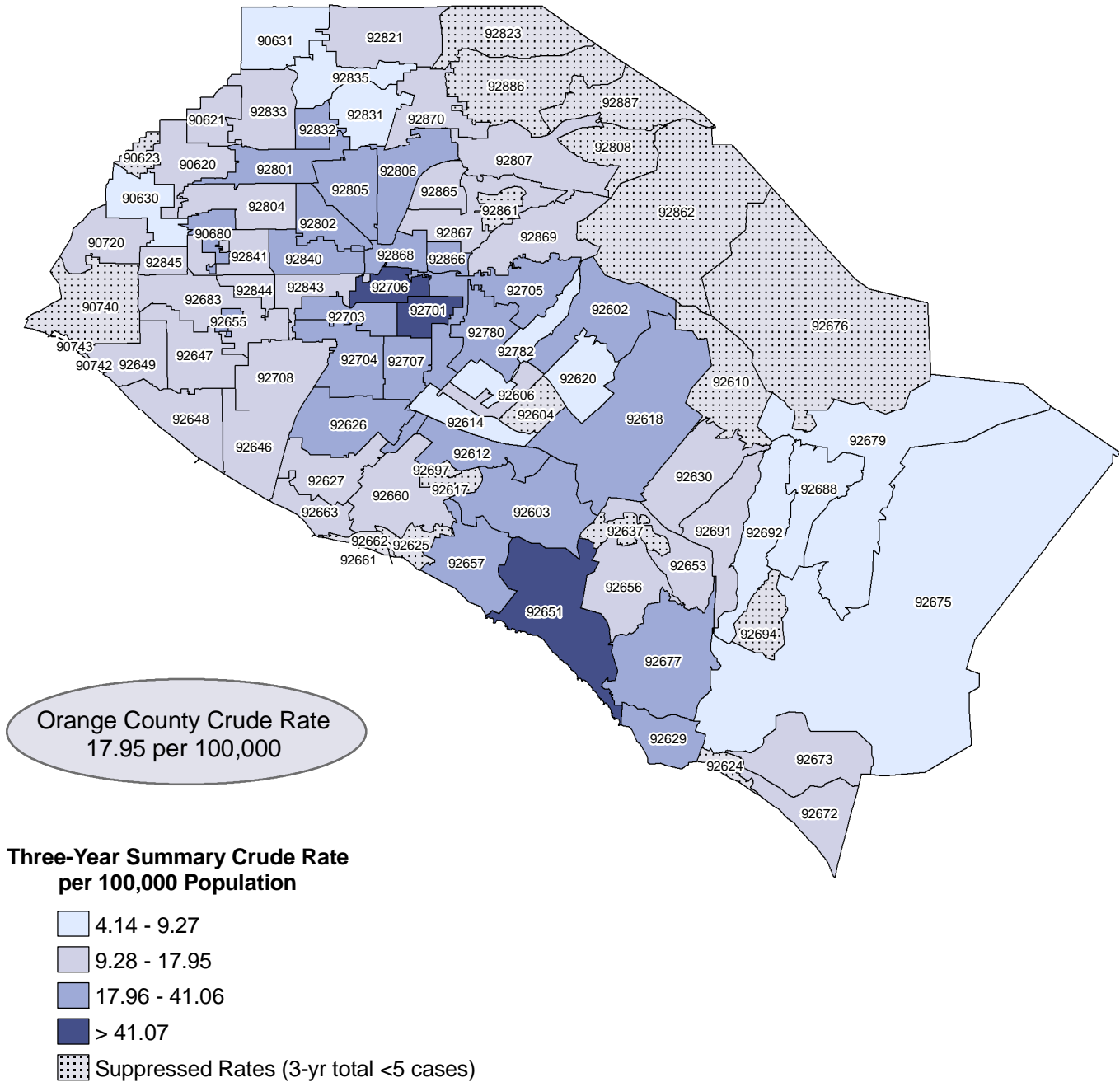
ZIP Code	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
90620	18	6.00	44,880	13.37
90621	12	4.00	35,743	11.19
90623	1	0.33	15,948	2.09
90630	6	2.00	48,313	4.14
90631	18	6.00	68,833	8.72
90680	22	7.33	31,312	23.42
90720	8	2.67	22,202	12.01
90740	4	1.33	24,199	5.51
90742	0	0.00	801	0.00
90743	0	0.00	408	0.00
92602	5	1.67	7,860	21.20
92603	7	2.33	12,090	19.30
92604	2	0.67	30,438	2.19
92606	9	3.00	22,223	13.50
92610	1	0.33	14,680	2.27
92612	18	6.00	26,167	22.93
92614	6	2.00	27,163	7.36
92617	0	0.00	12,709	0.00
92618	5	1.67	9,276	17.97
92620	7	2.33	41,485	5.62
92624	3	1.00	7,939	12.60
92625	3	1.00	12,306	8.13
92626	30	10.00	48,466	20.63
92627	30	10.00	63,827	15.67
92629	18	6.00	28,612	20.97
92630	28	9.33	59,520	15.68
92637	0	0.00	16,285	0.00
92646	19	6.33	56,794	11.15
92647	22	7.33	60,355	12.15
92648	17	5.67	46,773	12.12
92649	13	4.33	33,966	12.76
92651	87	29.00	25,064	115.70
92653	11	3.67	32,263	11.36
92655	11	3.67	8,930	41.06
92656	26	8.67	50,569	17.14
92657	7	2.33	7,536	30.96
92660	15	5.00	33,849	14.77
92661	1	0.33	3,882	8.59
92662	2	0.67	2,831	23.55
92663	10	3.33	21,666	15.39
92672	15	5.00	40,477	12.35
92673	8	2.67	22,009	12.12
92675	11	3.67	52,504	6.98
92676	0	0.00	1,824	0.00
92677	51	17.00	65,907	25.79
92679	5	1.67	36,741	4.54
92683	48	16.00	90,246	17.73
92688	13	4.33	47,986	9.03

Table 4.15 (continued)
Orange County
HIV/AIDS Cases by ZIP Code of Residence, 2005-2007

ZIP Code	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
92691	21	7.00	47,521	14.73
92692	12	4.00	48,692	8.21
92694	4	1.33	20,000	6.67
92697	0	0.00	806	0.00
92701	108	36.00	58,108	61.95
92703	69	23.00	73,888	31.13
92704	55	18.33	91,187	20.11
92705	35	11.67	44,861	26.01
92706	73	24.33	37,028	65.72
92707	45	15.00	65,093	23.04
92708	24	8.00	55,968	14.29
92780	32	10.67	55,466	19.23
92782	5	1.67	20,172	8.26
92801	46	15.33	58,173	26.36
92802	32	10.67	46,438	22.97
92804	43	14.33	89,141	16.08
92805	60	20.00	70,773	28.26
92806	32	10.67	33,932	31.44
92807	12	4.00	34,537	11.58
92808	3	1.00	21,560	4.64
92821	16	5.33	37,125	14.37
92823	0	0.00	2,098	0.00
92831	10	3.33	35,972	9.27
92832	21	7.00	25,861	27.07
92833	19	6.33	50,543	12.53
92835	5	1.67	22,726	7.33
92840	35	11.67	52,449	22.24
92841	15	5.00	31,720	15.76
92843	22	7.33	45,395	16.15
92844	10	3.33	24,687	13.50
92845	6	2.00	15,593	12.83
92861	0	0.00	6,036	0.00
92862	0	0.00	19	0.00
92865	8	2.67	18,129	14.71
92866	9	3.00	16,163	18.56
92867	17	5.67	43,612	12.99
92868	15	5.00	24,224	20.64
92869	20	6.67	39,219	17.00
92870	18	6.00	53,282	11.26
92886	4	1.33	44,422	3.00
92887	2	0.67	23,783	2.80
Unknown	33	11.00		
Total	1,649	549.67	3,062,259	17.95

Source of Population: Claritas 2006

Reported Incidence of HIV/AIDS Rates by ZIP Code of Residence (2005-2007)



2% of total HIV/AIDS cases (33/1649) with inaccurate ZIP codes or post office box addresses are not displayed on the map

Data Source: County of Orange, Health Care Agency, HIV/AIDS Surveillance, Data as of December 31, 2007

Table 4.16
Orange County
Tuberculosis by ZIP Code of Residence, 2005-2007

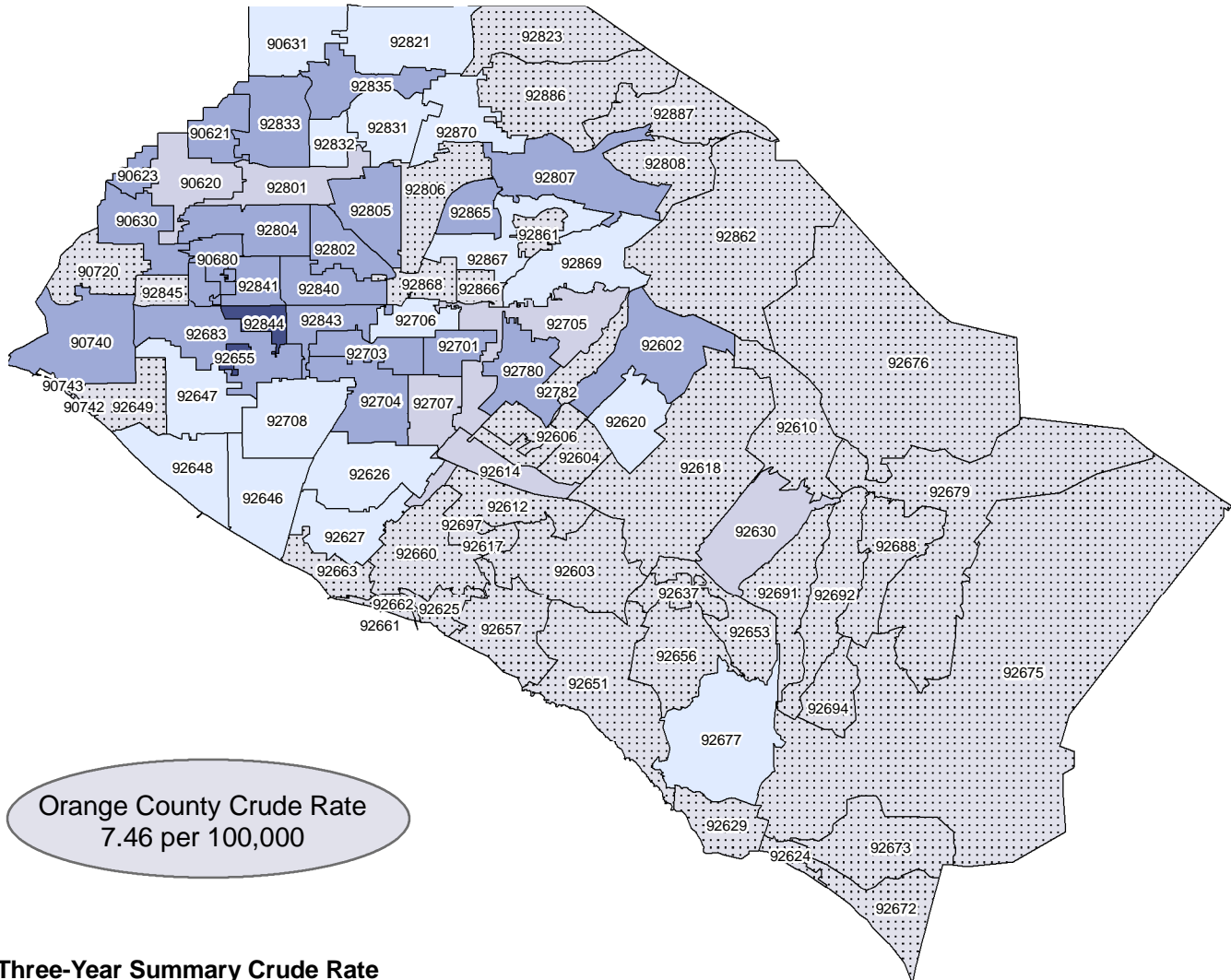
ZIP Code	2005	2006	2007	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
90620	6	2	2	10	3.33	44,880	7.43
90621	3	7	1	11	3.67	35,743	10.26
90623	2	0	5	7	2.33	15,948	14.63
90630	5	3	5	13	4.33	48,313	8.97
90631	3	1	1	5	1.67	68,833	2.42
90680	6	6	6	18	6.00	31,312	19.16
90720	1	1	0	2	0.67	22,202	3.00
90740	3	1	2	6	2.00	24,199	8.26
90742	0	0	1	1	0.33	801	41.61
90743	0	0	0	0	0.00	408	0.00
92602	3	2	1	6	2.00	7,860	25.45
92603	0	2	0	2	0.67	12,090	5.51
92604	0	1	0	1	0.33	30,438	1.10
92606	1	0	1	2	0.67	22,223	3.00
92610	0	0	0	0	0.00	14,680	0.00
92612	0	0	0	0	0.00	26,167	0.00
92614	0	5	1	6	2.00	27,163	7.36
92617	0	0	2	2	0.67	12,709	5.25
92618	1	0	0	1	0.33	9,276	3.59
92620	1	1	3	5	1.67	41,485	4.02
92624	1	0	0	1	0.33	7,939	4.20
92625	0	0	0	0	0.00	12,306	0.00
92626	1	1	3	5	1.67	48,466	3.44
92627	4	0	3	7	2.33	63,827	3.66
92629	0	0	0	0	0.00	28,612	0.00
92630	5	6	2	13	4.33	59,520	7.28
92637	1	1	0	2	0.67	16,285	4.09
92646	3	2	1	6	2.00	56,794	3.52
92647	2	2	2	6	2.00	60,355	3.31
92648	1	5	3	9	3.00	46,773	6.41
92649	1	0	1	2	0.67	33,966	1.96
92651	0	0	2	2	0.67	25,064	2.66
92653	1	2	1	4	1.33	32,263	4.13
92655	4	3	4	11	3.67	8,930	41.06
92656	0	2	1	3	1.00	50,569	1.98
92657	0	0	0	0	0.00	7,536	0.00
92660	0	1	0	1	0.33	33,849	0.98
92661	0	0	0	0	0.00	3,882	0.00
92662	0	0	0	0	0.00	2,831	0.00
92663	0	0	0	0	0.00	21,666	0.00
92672	0	0	0	0	0.00	40,477	0.00
92673	1	1	0	2	0.67	22,009	3.03
92675	0	1	0	1	0.33	52,504	0.63
92676	0	0	0	0	0.00	1,824	0.00
92677	2	2	3	7	2.33	65,907	3.54
92679	1	0	1	2	0.67	36,741	1.81
92683	35	24	23	82	27.33	90,246	30.29
92688	0	1	2	3	1.00	47,986	2.08

Table 4.16 (continued)
Orange County
Tuberculosis by ZIP Code of Residence, 2005-2007

ZIP Code	2005	2006	2007	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
92691	2	0	1	3	1.00	47,521	2.10
92692	2	1	0	3	1.00	48,692	2.05
92694	1	0	0	1	0.33	20,000	1.67
92697	0	1	0	1	0.33	806	41.36
92701	10	6	4	20	6.67	58,108	11.47
92703	8	12	7	27	9.00	73,888	12.18
92704	7	11	12	30	10.00	91,187	10.97
92705	4	2	4	10	3.33	44,861	7.43
92706	2	1	2	5	1.67	37,028	4.50
92707	3	6	5	14	4.67	65,093	7.17
92708	4	4	3	11	3.67	55,968	6.55
92780	4	4	5	13	4.33	55,466	7.81
92782	2	2	0	4	1.33	20,172	6.61
92801	5	4	4	13	4.33	58,173	7.45
92802	4	4	7	15	5.00	46,438	10.77
92804	6	10	10	26	8.67	89,141	9.72
92805	5	6	8	19	6.33	70,773	8.95
92806	2	0	2	4	1.33	33,932	3.93
92807	1	3	5	9	3.00	34,537	8.69
92808	1	1	0	2	0.67	21,560	3.09
92821	0	2	4	6	2.00	37,125	5.39
92823	0	0	0	0	0.00	2,098	0.00
92831	2	3	1	6	2.00	35,972	5.56
92832	3	0	2	5	1.67	25,861	6.44
92833	5	5	4	14	4.67	50,543	9.23
92835	1	3	3	7	2.33	22,726	10.27
92840	15	12	5	32	10.67	52,449	20.34
92841	6	4	7	17	5.67	31,720	17.86
92843	12	10	8	30	10.00	45,395	22.03
92844	13	11	7	31	10.33	24,687	41.86
92845	0	0	0	0	0.00	15,593	0.00
92861	0	1	0	1	0.33	6,036	5.52
92862	1	0	0	1	0.33	19	1,754.39
92865	3	0	2	5	1.67	18,129	9.19
92866	1	1	0	2	0.67	16,163	4.12
92867	3	1	4	8	2.67	43,612	6.11
92868	2	1	1	4	1.33	24,224	5.50
92869	2	2	2	6	2.00	39,219	5.10
92870	2	1	4	7	2.33	53,282	4.38
92886	0	2	1	3	1.00	44,422	2.25
92887	0	1	0	1	0.33	23,783	1.40
Unknown		2					
Total	242	226	217	685	228.33	3,062,259	7.46

Source of Population: Claritas 2006

Reported Incidence of Tuberculosis Rates by ZIP Code of Residence (2005-2007)



**Three-Year Summary Crude Rate
per 100,000 Population**

- 2.42 - 6.55
- 6.56 - 7.46
- 7.47 - 30.29
- > 30.29
- Suppressed Rate (3-yr total < 5 cases)

0.29% of total tuberculosis cases (2/685) with post office box addresses or missing ZIP codes are not displayed on the map

Data Source: County of Orange Health Care Agency, Pulmonary Disease Services, unpublished data, March 2008

Table 4.17
Orange County
Chlamydia Cases by ZIP Code of Residence, 2005-2007

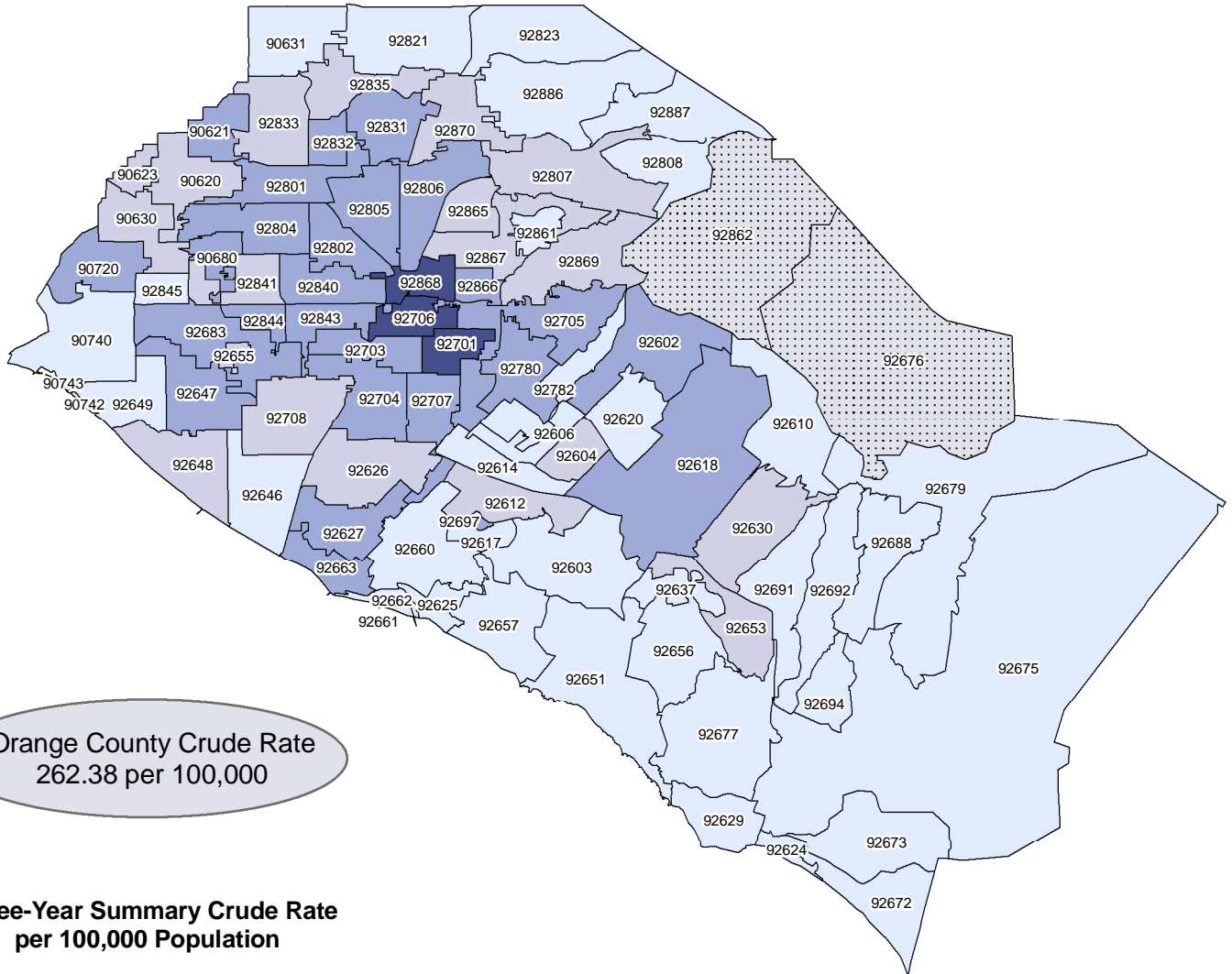
ZIP Code	2005	2006	2007	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
90620	107	101	135	343	114.33	44,880	254.75
90621	106	142	118	366	122.00	35,743	341.33
90623	36	23	25	84	28.00	15,948	175.57
90630	90	150	89	329	109.67	48,313	226.99
90631	154	0	127	281	93.67	68,833	136.08
90680	113	98	90	301	100.33	31,312	320.43
90720	79	73	93	245	81.67	22,202	367.83
90740	25	34	39	98	32.67	24,199	134.99
90742	1	1	0	2	0.67	801	83.23
90743	0	0	0	0	0.00	408	0.00
92602	35	25	24	84	28.00	7,860	356.23
92603	18	13	12	43	14.33	12,090	118.56
92604	49	63	53	165	55.00	30,438	180.70
92606	32	18	25	75	25.00	22,223	112.50
92610	9	10	9	28	9.33	14,680	63.58
92612	48	56	39	143	47.67	26,167	182.16
92614	36	37	33	106	35.33	27,163	130.08
92617	17	18	17	52	17.33	12,709	136.39
92618	25	46	32	103	34.33	9,276	370.13
92620	30	38	39	107	35.67	41,485	85.97
92624	5	5	11	21	7.00	7,939	88.17
92625	11	11	9	31	10.33	12,306	83.97
92626	134	115	128	377	125.67	48,466	259.29
92627	214	207	186	607	202.33	63,827	317.00
92629	48	31	33	112	37.33	28,612	130.48
92630	102	114	96	312	104.00	59,520	174.73
92637	6	3	3	12	4.00	16,285	24.56
92646	85	77	55	217	72.33	56,794	127.36
92647	186	218	244	648	216.00	60,355	357.88
92648	105	116	110	331	110.33	46,773	235.89
92649	58	39	67	164	54.67	33,966	160.95
92651	30	45	45	120	40.00	25,064	159.59
92653	60	69	57	186	62.00	32,263	192.17
92655	22	18	12	52	17.33	8,930	194.10
92656	55	65	62	182	60.67	50,569	119.97
92657	10	8	8	26	8.67	7,536	115.00
92660	51	58	57	166	55.33	33,849	163.47
92661	5	9	4	18	6.00	3,882	154.56
92662	1	3	3	7	2.33	2,831	82.42
92663	62	75	81	218	72.67	21,666	335.39
92672	49	44	50	143	47.67	40,477	117.76
92673	22	20	23	65	21.67	22,009	98.44
92675	61	64	74	199	66.33	52,504	126.34
92676	2	0	0	2	0.67	1,824	36.55
92677	74	74	60	208	69.33	65,907	105.20
92679	23	23	28	74	24.67	36,741	67.14
92683	219	226	275	720	240.00	90,246	265.94
92688	50	61	65	176	58.67	47,986	122.26

Table 4.17 (continued)
Orange County
Chlamydia Cases by ZIP Code of Residence, 2005-2007

ZIP Code	2005	2006	2007	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
92691	52	78	82	212	70.67	47,521	148.71
92692	39	37	53	129	43.00	48,692	88.31
92694	13	17	20	50	16.67	20,000	83.33
92697	2	4	1	7	2.33	806	289.50
92701	362	356	326	1044	348.00	58,108	598.88
92703	353	333	333	1019	339.67	73,888	459.70
92704	361	375	387	1123	374.33	91,187	410.51
92705	146	179	201	526	175.33	44,861	390.84
92706	232	245	385	862	287.33	37,028	775.99
92707	263	272	261	796	265.33	65,093	407.62
92708	110	128	131	369	123.00	55,968	219.77
92780	158	149	172	479	159.67	55,466	287.86
92782	26	17	22	65	21.67	20,172	107.41
92801	272	285	273	830	276.67	58,173	475.59
92802	193	156	161	510	170.00	46,438	366.08
92804	316	305	337	958	319.33	89,141	358.23
92805	326	306	331	963	321.00	70,773	453.56
92806	117	130	116	363	121.00	33,932	356.60
92807	68	75	86	229	76.33	34,537	221.02
92808	27	21	26	74	24.67	21,560	114.41
92821	37	56	68	161	53.67	37,125	144.56
92823	0	4	6	10	3.33	2,098	158.88
92831	109	121	111	341	113.67	35,972	315.99
92832	110	90	83	283	94.33	25,861	364.77
92833	123	102	114	339	113.00	50,543	223.57
92835	50	39	50	139	46.33	22,726	203.88
92840	205	168	173	546	182.00	52,449	347.00
92841	78	87	75	240	80.00	31,720	252.21
92843	136	168	169	473	157.67	45,395	347.32
92844	66	75	61	202	67.33	24,687	272.75
92845	17	25	24	66	22.00	15,593	141.09
92861	5	2	9	16	5.33	6,036	88.36
92862	1	1	0	2	0.67	19	3508.77
92865	45	39	48	132	44.00	18,129	242.71
92866	52	56	76	184	61.33	16,163	379.47
92867	98	134	105	337	112.33	43,612	257.57
92868	129	187	187	503	167.67	24,224	692.15
92869	90	95	95	280	93.33	39,219	237.98
92870	85	98	117	300	100.00	53,282	187.68
92886	45	40	63	148	49.33	44,422	111.06
92887	24	20	21	65	21.67	23,783	91.10
Unknown	112	150	118	380	126.67		
Total	7,813	7,969	8,322	24,104	8,034.67	3,062,259	262.38

Source of Population: Claritas 2006

Reported Incidence of Chlamydia Rates by ZIP Code of Residence (2005-2007)



1.58% of total chlamydia cases (380/24,104) with inaccurate ZIP codes or post office box addresses are not displayed on the map

Data Source: County of Orange, Health Care Agency, Epidemiology & Assessment, April 2008

**Table 4.18
Orange County**

Chronic Hepatitis B Cases by ZIP Code of Residence, 2005-2007

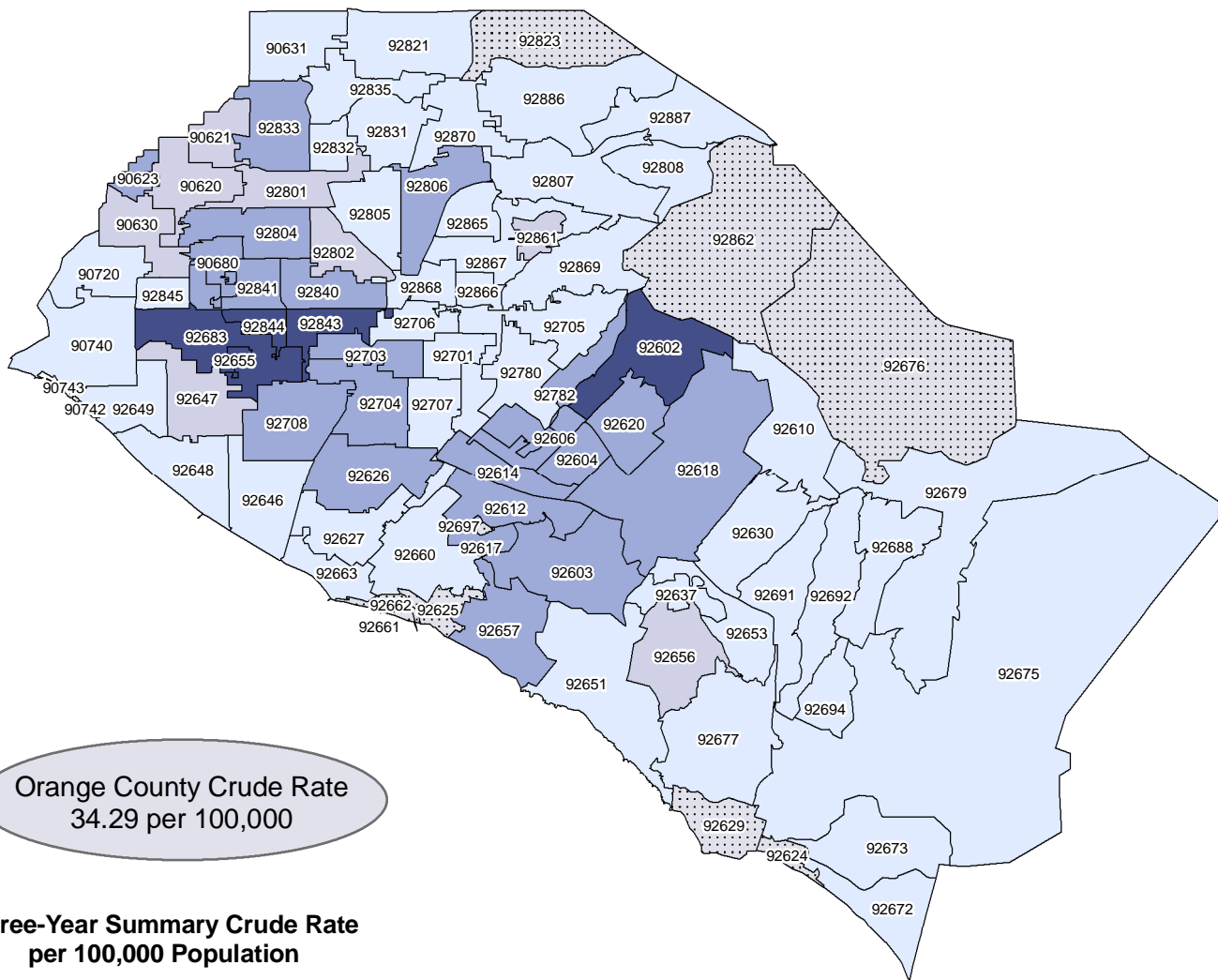
ZIP Code	2005	2006	2007	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
90620	11	24	10	45	15.00	44,880	33.42
90621	12	12	12	36	12.00	35,743	33.57
90623	5	12	10	27	9.00	15,948	56.43
90630	8	29	12	49	16.33	48,313	33.81
90631	3	9	4	16	5.33	68,833	7.75
90680	13	17	16	45	15.00	31,312	47.90
90720	1	4	3	8	2.67	22,202	12.01
90740	3	4	1	8	2.67	24,199	11.02
90742	0	0	0	0	0.00	801	0.00
90743	0	0	0	0	0.00	408	0.00
92602	17	25	11	53	17.67	7,860	224.77
92603	6	16	9	31	10.33	12,090	85.47
92604	7	22	13	42	14.00	30,438	46.00
92606	10	24	10	44	14.67	22,223	66.00
92610	2	1	3	6	2.00	14,680	13.62
92612	12	15	7	34	11.33	26,167	43.31
92614	7	14	8	29	9.67	27,163	35.59
92617	4	7	3	14	4.67	12,709	36.72
92618	2	7	7	16	5.33	9,276	57.50
92620	10	25	20	55	18.33	41,485	44.19
92624	0	0	0	0	0.00	7,939	0.00
92625	0	0	1	1	0.33	12,306	2.71
92626	12	28	20	60	20.00	48,466	41.27
92627	6	11	4	21	7.00	63,827	10.97
92629	1	2	1	4	1.33	28,612	4.66
92630	7	18	13	38	12.67	59,520	21.28
92637	1	3	3	7	2.33	16,285	14.33
92646	9	22	6	37	12.33	56,794	21.72
92647	14	25	16	55	18.33	60,355	30.38
92648	2	8	3	13	4.33	46,773	9.26
92649	6	11	4	21	7.00	33,966	20.61
92651	2	2	3	7	2.33	25,064	9.31
92653	5	8	5	18	6.00	32,263	18.60
92655	17	17	12	46	15.33	8,930	171.71
92656	14	17	10	41	13.67	50,569	27.03
92657	3	7	4	14	4.67	7,536	61.92
92660	3	6	2	11	3.67	33,849	10.83
92661	0	1	0	1	0.33	3,882	8.59
92662	0	0	0	0	0.00	2,831	0.00
92663	1	2	2	5	1.67	21,666	7.69
92672	4	6	3	13	4.33	40,477	10.71
92673	1	4	1	6	2.00	22,009	9.09
92675	3	3	2	8	2.67	52,504	5.08
92676	0	0	0	0	0.00	1,824	0.00
92677	7	15	5	27	9.00	65,907	13.66
92679	1	4	2	7	2.33	36,741	6.35
92683	100	205	107	412	137.33	90,246	152.18
92688	5	8	4	17	5.67	47,986	11.81

Table 4.18 (continued)
Orange County
Chronic Hepatitis B Cases by ZIP Code of Residence, 2005-2007

ZIP Code	2005	2006	2007	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
92691	5	4	7	16	5.33	47,521	11.22
92692	3	6	5	14	4.67	48,692	9.58
92694	3	8	2	13	4.33	20,000	21.67
92697	0	1	0	1	0.33	806	41.36
92701	2	10	6	18	6.00	58,108	10.33
92703	14	54	26	94	31.33	73,888	42.41
92704	36	71	28	135	45.00	91,187	49.35
92705	6	9	3	18	6.00	44,861	13.37
92706	6	16	6	28	9.33	37,028	25.21
92707	9	13	5	27	9.00	65,093	13.83
92708	26	59	31	116	38.67	55,968	69.09
92780	9	18	10	37	12.33	55,466	22.24
92782	6	11	6	23	7.67	20,172	38.01
92801	15	24	13	52	17.33	58,173	29.80
92802	14	16	10	40	13.33	46,438	28.71
92804	28	53	31	112	37.33	89,141	41.88
92805	6	12	13	31	10.33	70,773	14.60
92806	9	20	11	40	13.33	33,932	39.29
92807	3	6	5	14	4.67	34,537	13.51
92808	7	4	2	13	4.33	21,560	20.10
92821	7	8	9	24	8.00	37,125	21.55
92823	1	3	0	4	1.33	2,098	63.55
92831	2	9	6	17	5.67	35,972	15.75
92832	2	5	3	10	3.33	25,861	12.89
92833	14	20	21	55	18.33	50,543	36.27
92835	2	9	3	14	4.67	22,726	20.53
92840	32	57	37	126	42.00	52,449	80.08
92841	23	41	30	94	31.33	31,720	98.78
92843	43	96	40	179	59.67	45,395	131.44
92844	31	64	31	126	42.00	24,687	170.13
92845	2	5	0	7	2.33	15,593	14.96
92861	2	3	0	5	1.67	6,036	27.61
92862	0	0	0	0	0.00	19	0.00
92865	2	5	3	10	3.33	18,129	18.39
92866	1	5	0	6	2.00	16,163	12.37
92867	8	7	7	22	7.33	43,612	16.81
92868	1	11	5	17	5.67	24,224	23.39
92869	5	13	7	25	8.33	39,219	21.25
92870	13	15	10	38	12.67	53,282	23.77
92886	4	10	18	32	10.67	44,422	24.01
92887	1	8	2	11	3.67	23,783	15.42
Unknown	4	19	15	38	12.67		
Total	764	1,528	858	3,150	1,050.00	3,062,259	34.29

Source of Population: Claritas 2006

Reported Incidence of Hepatitis B - Chronic Infection* Rates by ZIP Code of Residence (2005-2007)



^2007 data is considered preliminary

* From 9/2004 - 10/2005 and 7/2007 - present, Epidemiology & Assessment stopped reporting chronic hepatitis B except for cases that meet selected criteria

1.21% of total hepatitis B cases (38/3,150) with inaccurate ZIP codes or post office box addresses are not displayed on the map

Data Source: County of Orange, Health Care Agency, Epidemiology & Assessment, April 2008

Table 4.19
Orange County
Chronic Hepatitis C by ZIP Code of Residence, 2005-2007

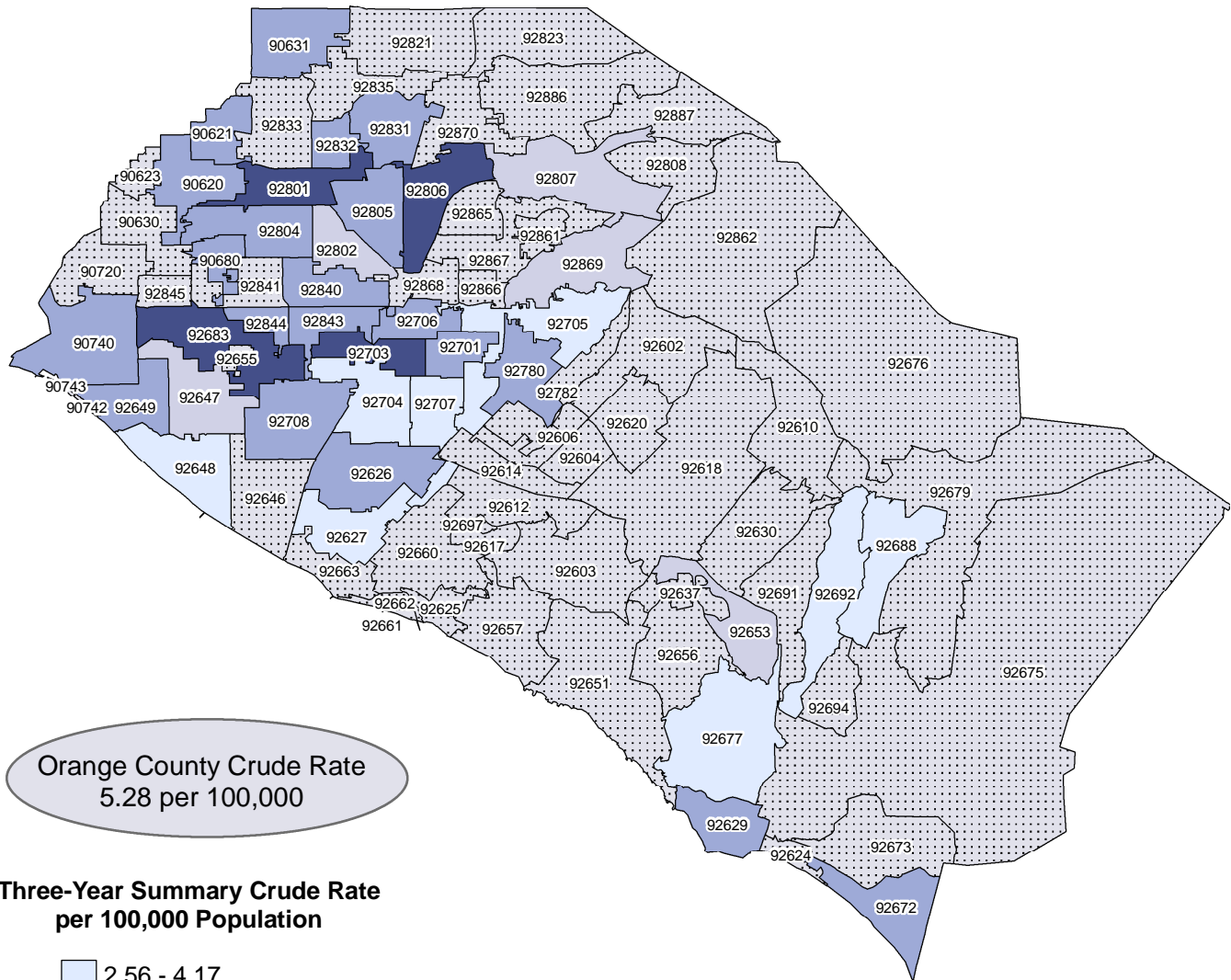
ZIP Code	2005	2006	2007	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
90620	2	1	5	8	2.67	44,880	5.94
90621	1	2	4	7	2.33	35,743	6.53
90623	0	0	1	1	0.33	15,948	2.09
90630	0	1	1	2	0.67	48,313	1.38
90631	3	5	3	11	3.67	68,833	5.33
90680	5	1	3	9	3.00	31,312	9.58
90720	1	1	0	2	0.67	22,202	3.00
90740	1	3	1	5	1.67	24,199	6.89
90742	0	0	0	0	0.00	801	0.00
90743	0	0	0	0	0.00	408	0.00
92602	1	0	1	2	0.67	7,860	8.48
92603	0	0	1	1	0.33	12,090	2.76
92604	1	0	0	1	0.33	30,438	1.10
92606	1	1	0	2	0.67	22,223	3.00
92610	1	0	0	1	0.33	14,680	2.27
92612	0	1	0	1	0.33	26,167	1.27
92614	0	0	0	0	0.00	27,163	0.00
92617	0	0	0	0	0.00	12,709	0.00
92618	0	0	2	2	0.67	9,276	7.19
92620	1	0	1	2	0.67	41,485	1.61
92624	0	2	2	4	1.33	7,939	16.79
92625	0	0	0	0	0.00	12,306	0.00
92626	7	5	3	15	5.00	48,466	10.32
92627	1	3	1	5	1.67	63,827	2.61
92629	2	2	3	7	2.33	28,612	8.16
92630	0	2	1	3	1.00	59,520	1.68
92637	0	1	1	2	0.67	16,285	4.09
92646	0	2	2	4	1.33	56,794	2.35
92647	2	4	3	9	3.00	60,355	4.97
92648	2	2	1	5	1.67	46,773	3.56
92649	2	5	0	7	2.33	33,966	6.87
92651	1	3	0	4	1.33	25,064	5.32
92653	3	0	2	5	1.67	32,263	5.17
92655	0	3	1	4	1.33	8,930	14.93
92656	2	2	0	4	1.33	50,569	2.64
92657	0	0	0	0	0.00	7,536	0.00
92660	0	0	0	0	0.00	33,849	0.00
92661	0	0	0	0	0.00	3,882	0.00
92662	0	0	0	0	0.00	2,831	0.00
92663	1	0	0	1	0.33	21,666	1.54
92672	1	4	2	7	2.33	40,477	5.76
92673	1	1	0	2	0.67	22,009	3.03
92675	0	2	2	4	1.33	52,504	2.54
92676	0	0	0	0	0.00	1,824	0.00
92677	2	2	2	6	2.00	65,907	3.03
92679	1	1	0	2	0.67	36,741	1.81
92683	7	14	15	36	12.00	90,246	13.30
92688	0	4	2	6	2.00	47,986	4.17

Table 4.19 (continued)
Orange County
Chronic Hepatitis C by ZIP Code of Residence, 2005-2007

ZIP Code	2005	2006	2007	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
92691	0	0	4	4	1.33	47,521	2.81
92692	3	2	1	6	2.00	48,692	4.11
92694	1	1	0	2	0.67	20,000	3.33
92697	0	0	0	0	0.00	806	0.00
92701	3	7	8	18	6.00	58,108	10.33
92703	4	10	12	26	8.67	73,888	11.73
92704	3	3	5	11	3.67	91,187	4.02
92705	1	0	4	5	1.67	44,861	3.72
92706	1	8	2	11	3.67	37,028	9.90
92707	2	1	2	5	1.67	65,093	2.56
92708	5	4	5	14	4.67	55,968	8.34
92780	3	4	2	9	3.00	55,466	5.41
92782	1	0	0	1	0.33	20,172	1.65
92801	9	6	8	23	7.67	58,173	13.18
92802	1	6	0	7	2.33	46,438	5.02
92804	9	9	8	26	8.67	89,141	9.72
92805	2	7	3	12	4.00	70,773	5.65
92806	3	4	6	13	4.33	33,932	12.77
92807	3	2	0	5	1.67	34,537	4.83
92808	0	0	0	0	0.00	21,560	0.00
92821	0	1	0	1	0.33	37,125	0.90
92823	0	0	0	0	0.00	2,098	0.00
92831	0	2	4	6	2.00	35,972	5.56
92832	2	3	2	7	2.33	25,861	9.02
92833	0	3	1	4	1.33	50,543	2.64
92835	0	0	1	1	0.33	22,726	1.47
92840	3	9	2	14	4.67	52,449	8.90
92841	2	0	0	2	0.67	31,720	2.10
92843	1	3	6	10	3.33	45,395	7.34
92844	3	5	0	8	2.67	24,687	10.80
92845	0	1	0	1	0.33	15,593	2.14
92861	0	1	0	1	0.33	6,036	5.52
92862	0	0	0	0	0.00	19	0.00
92865	0	2	1	3	1.00	18,129	5.52
92866	1	0	1	2	0.67	16,163	4.12
92867	1	0	0	1	0.33	43,612	0.76
92868	0	1	1	2	0.67	24,224	2.75
92869	1	4	1	6	2.00	39,219	5.10
92870	2	0	1	3	1.00	53,282	1.88
92886	1	1	0	2	0.67	44,422	1.50
92887	0	0	1	1	0.33	23,783	1.40
Unknown	1	2	10	13	4.33		
Total	125	192	168	485	161.67	3,062,259	5.28

Source of Population: Claritas 2006

Reported Incidence of Hepatitis C - Chronic Infection Rates by ZIP Code of Residence (2005-2007)



^2007 data is considered preliminary

* In September 2004, E&A stopped reporting chronic hepatitis C except for cases that meet selected criteria

2.68% of total hepatitis C cases (13/485) with inaccurate ZIP codes or post office box addresses and not displayed on the map

Data Source: County of Orange, Health Care Agency, Epidemiology & Assessment, April 2008

**Table 4.20
Orange County
Gonococcal Cases by ZIP Code of Residence, 2005-2007**

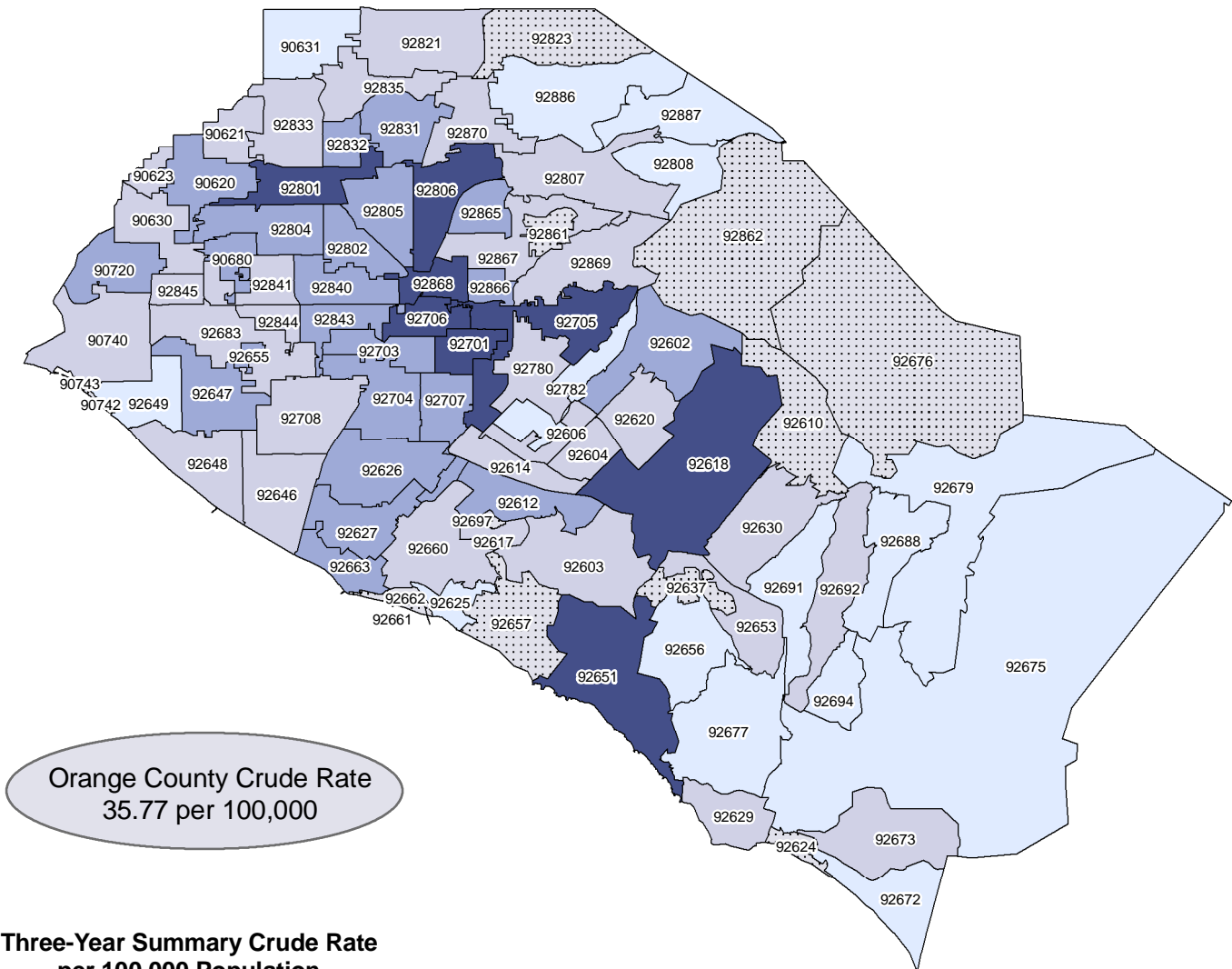
ZIP Code	2005	2006	2007	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
90620	24	17	8	49	16.33	44,880	36.39
90621	8	16	9	33	11.00	35,743	30.78
90623	11	2	2	15	5.00	15,948	31.35
90630	11	20	11	42	14.00	48,313	28.98
90631	15	10	15	40	13.33	68,833	19.37
90680	21	15	12	48	16.00	31,312	51.10
90720	15	8	9	32	10.67	22,202	48.04
90740	6	9	3	18	6.00	24,199	24.79
90742	0	0	0	0	0.00	801	0.00
90743	1	0	0	1	0.33	408	81.70
92602	3	5	5	13	4.33	7,860	55.13
92603	1	5	4	10	3.33	12,090	27.57
92604	9	7	9	25	8.33	30,438	27.38
92606	6	2	9	17	5.67	22,223	25.50
92610	0	2	2	4	1.33	14,680	9.08
92612	15	9	9	33	11.00	26,167	42.04
92614	8	3	9	20	6.67	27,163	24.54
92617	4	2	4	10	3.33	12,709	26.23
92618	7	15	6	28	9.33	9,276	100.62
92620	7	11	8	26	8.67	41,485	20.89
92624	0	2	1	3	1.00	7,939	12.60
92625	5	0	1	6	2.00	12,306	16.25
92626	20	16	17	53	17.67	48,466	36.45
92627	39	31	19	89	29.67	63,827	46.48
92629	10	9	7	26	8.67	28,612	30.29
92630	12	13	14	39	13.00	59,520	21.84
92637	1	1	1	3	1.00	16,285	6.14
92646	20	10	8	38	12.67	56,794	22.30
92647	30	18	37	85	28.33	60,355	46.94
92648	17	17	11	45	15.00	46,773	32.07
92649	9	4	6	19	6.33	33,966	18.65
92651	19	14	18	51	17.00	25,064	67.83
92653	8	8	17	33	11.00	32,263	34.09
92655	6	3	2	11	3.67	8,930	41.06
92656	11	11	8	30	10.00	50,569	19.77
92657	1	1	1	3	1.00	7,536	13.27
92660	13	10	3	26	8.67	33,849	25.60
92661	1	0	0	1	0.33	3,882	8.59
92662	1	0	0	1	0.33	2,831	11.77
92663	14	8	6	28	9.33	21,666	43.08
92672	3	4	3	10	3.33	40,477	8.24
92673	9	4	2	15	5.00	22,009	22.72
92675	11	9	2	22	7.33	52,504	13.97
92676	0	0	0	0	0.00	1,824	0.00
92677	15	9	15	39	13.00	65,907	19.72
92679	3	5	3	11	3.67	36,741	9.98
92683	29	26	20	75	25.00	90,246	27.70
92688	8	0	5	13	4.33	47,986	9.03

Table 4.20 (continued)
Orange County
Gonococcal Cases by ZIP Code of Residence, 2005-2007

ZIP Code	2005	2006	2007	3 Year Total	3 Year Average	2006 Population	Crude Rate per 100,000
92691	5	6	6	17	5.67	47,521	11.92
92692	8	13	12	33	11.00	48,692	22.59
92694	6	1	3	10	3.33	20,000	16.67
92697	1	0	0	1	0.33	806	41.36
92701	46	41	31	118	39.33	58,108	67.69
92703	46	29	30	105	35.00	73,888	47.37
92704	45	22	33	100	33.33	91,187	36.55
92705	20	40	56	116	38.67	44,861	86.19
92706	30	27	89	146	48.67	37,028	131.43
92707	35	33	25	93	31.00	65,093	47.62
92708	18	17	12	47	15.67	55,968	27.99
92780	20	18	11	49	16.33	55,466	29.45
92782	1	2	3	6	2.00	20,172	9.91
92801	53	40	28	121	40.33	58,173	69.33
92802	22	26	17	65	21.67	46,438	46.66
92804	36	45	30	111	37.00	89,141	41.51
92805	31	42	31	104	34.67	70,773	48.98
92806	31	23	17	71	23.67	33,932	69.75
92807	17	10	6	33	11.00	34,537	31.85
92808	3	2	3	8	2.67	21,560	12.37
92821	8	9	6	23	7.67	37,125	20.65
92823	1	0	1	2	0.67	2,098	31.78
92831	13	16	13	42	14.00	35,972	38.92
92832	13	10	8	31	10.33	25,861	39.96
92833	14	16	11	41	13.67	50,543	27.04
92835	9	8	3	20	6.67	22,726	29.33
92840	44	23	14	81	27.00	52,449	51.48
92841	15	8	11	34	11.33	31,720	35.73
92843	21	17	15	53	17.67	45,395	38.92
92844	8	10	3	21	7.00	24,687	28.36
92845	8	2	1	11	3.67	15,593	23.51
92861	1	0	0	1	0.33	6,036	5.52
92862	0	0	0	0	0.00	19	0.00
92865	6	9	5	20	6.67	18,129	36.77
92866	9	6	11	26	8.67	16,163	53.62
92867	12	11	8	31	10.33	43,612	23.69
92868	23	28	26	77	25.67	24,224	105.96
92869	15	15	10	40	13.33	39,219	34.00
92870	14	7	12	33	11.00	53,282	20.64
92886	11	5	6	22	7.33	44,422	16.51
92887	2	2	3	7	2.33	23,783	9.81
Unknown	35	18	24	77	25.67		
Total	1,243	1,048	995	3,286	1,095.33	3,062,259	35.77

Source of Population: Claritas 2006

Reported Incidence of Gonococcal Infection Rates by ZIP Code of Residence (2005-2007)



Three-Year Summary Crude Rate per 100,000 Population

- 8.24 - 19.77
- 19.78 - 35.77
- 35.78 - 55.13
- >55.14
- Suppressed Rate (3-yr total < 5 cases)

2.34% of total gonococcal cases (77/3,286) with inaccurate ZIP codes or post office box addresses are not displayed on the map

Data Source: County of Orange, Health Care Agency, Epidemiology & Assessment, April 2008

Table 4.21
Orange County
Staph Infection Hospital Admissions by ZIP Code of Residence, 2004-2006

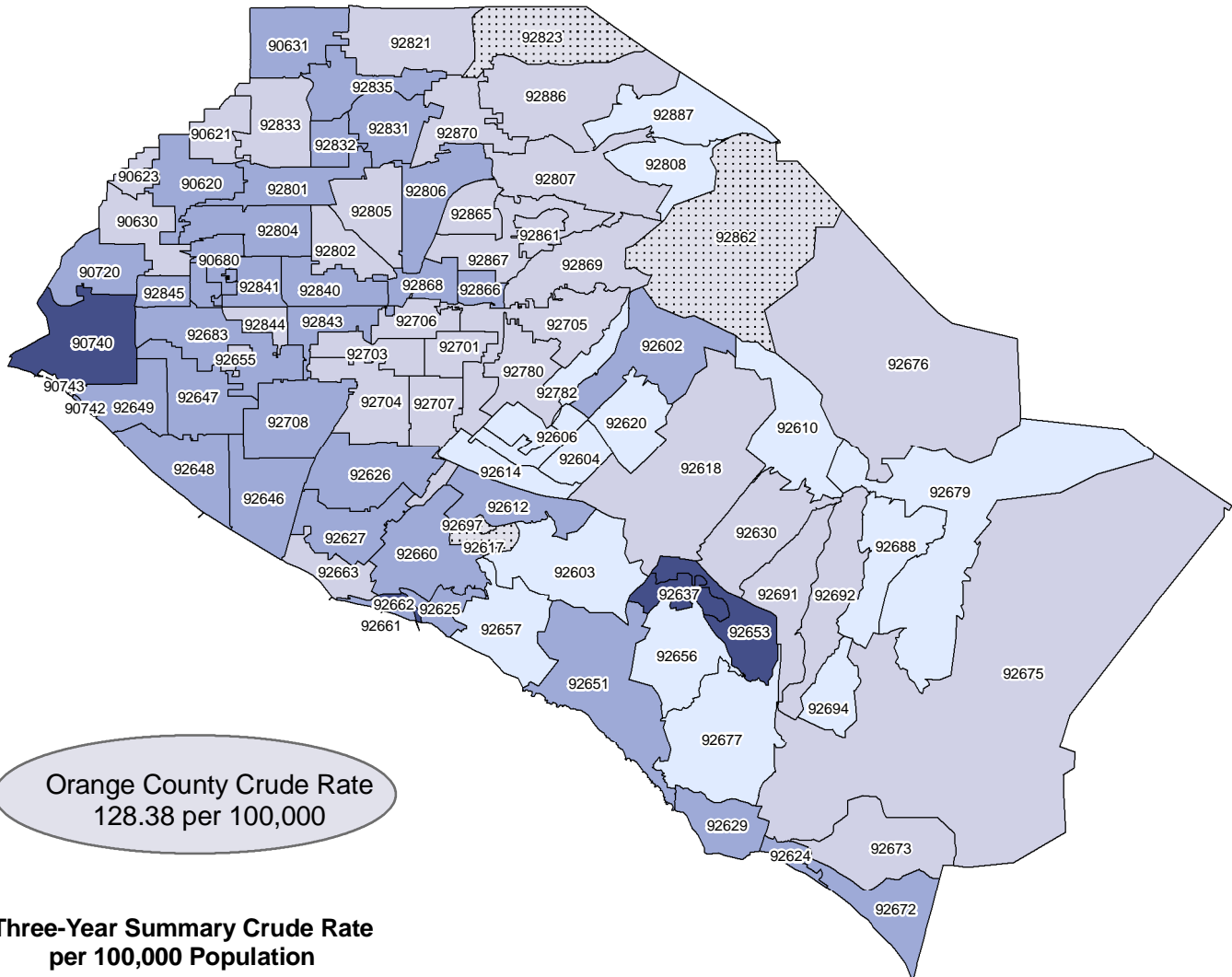
ZIP Code	2004	2005	2006	3 Year Total	3 Year Average	2005 Population	Crude Rate per 100,000
90620	89	81	78	248	82.67	44,784	184.59
90621	42	33	46	121	40.33	35,542	113.48
90623	24	12	17	53	17.67	16,010	110.35
90630	59	68	47	174	58.00	47,768	121.42
90631	87	99	112	298	99.33	69,005	143.95
90680	52	44	61	157	52.33	32,188	162.59
90720	37	42	34	113	37.67	23,451	160.62
90740	45	63	63	171	57.00	24,461	233.02
90742	1	2	2	5	1.67	887	187.90
90743	0	0	1	1	0.33	451	73.91
92602	10	10	13	33	11.00	6,242	176.23
92603	4	7	12	23	7.67	10,798	71.00
92604	29	23	22	74	24.67	30,220	81.62
92606	8	14	16	38	12.67	22,701	55.80
92610	9	4	6	19	6.33	15,617	40.55
92612	40	26	28	94	31.33	24,115	129.93
92614	17	9	19	45	15.00	25,582	58.63
92617	0	1	2	3	1.00	13,054	7.66
92618	10	5	9	24	8.00	8,758	91.35
92620	23	20	23	66	22.00	41,705	52.75
92624	15	7	12	34	11.33	7,753	146.18
92625	16	20	17	53	17.67	12,552	140.75
92626	78	95	76	249	83.00	47,669	174.12
92627	77	96	110	283	94.33	64,586	146.06
92629	61	37	51	149	49.67	28,129	176.57
92630	40	70	65	175	58.33	59,550	97.96
92637	39	57	48	144	48.00	15,568	308.32
92646	76	88	92	256	85.33	56,447	151.17
92647	66	84	100	250	83.33	60,592	137.53
92648	77	57	69	203	67.67	46,400	145.83
92649	59	43	46	148	49.33	34,184	144.32
92651	28	49	28	105	35.00	25,180	139.00
92653	97	66	51	214	71.33	31,899	223.62
92655	6	13	12	31	10.33	9,049	114.19
92656	30	32	39	101	33.67	45,422	74.12
92657	6	1	6	13	4.33	8,006	54.13
92660	49	41	39	129	43.00	33,292	129.16
92661	3	7	7	17	5.67	3,951	143.42
92662	12	8	7	27	9.00	2,897	310.67
92663	24	23	36	83	27.67	22,191	124.68
92672	41	60	58	159	53.00	39,328	134.76
92673	24	18	30	72	24.00	22,057	108.81
92675	42	43	58	143	47.67	38,072	125.20
92676	2	4	2	8	2.67	2,089	127.65
92677	64	50	60	174	58.00	65,626	88.38
92679	21	20	15	56	18.67	41,144	45.37
92683	129	146	139	414	138.00	90,906	151.81
92688	31	32	34	97	32.33	48,489	66.68

Table 4.21 (continued)
Orange County
Staph Infection Hospital Admissions by ZIP Code of Residence, 2004-2006

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average	2005 Population	Crude Rate per 100,000
92691	50	64	64	178	59.33	47,848	124.00
92692	62	33	41	136	45.33	48,045	94.36
92694	6	7	12	25	8.33	18,000	46.30
92697	0	0	0	0	0.00	824	0.00
92701	60	65	80	205	68.33	58,268	117.27
92703	102	91	68	261	87.00	73,474	118.41
92704	95	96	106	297	99.00	91,875	107.76
92705	61	56	59	176	58.67	47,004	124.81
92706	41	51	42	134	44.67	36,737	121.58
92707	64	78	54	196	65.33	65,020	100.48
92708	79	118	97	294	98.00	55,613	176.22
92780	73	68	71	212	70.67	56,454	125.18
92782	12	11	9	32	10.67	19,938	53.50
92801	85	89	113	287	95.67	57,972	165.02
92802	57	60	61	178	59.33	46,292	128.17
92804	132	154	167	453	151.00	90,617	166.64
92805	61	77	99	237	79.00	70,455	112.13
92806	44	35	55	134	44.67	33,614	132.88
92807	51	35	46	132	44.00	34,336	128.15
92808	14	13	19	46	15.33	21,259	72.13
92821	47	45	41	133	44.33	37,003	119.81
92823	2	0	1	3	1.00	1,867	53.56
92831	48	43	50	141	47.00	35,260	133.30
92832	42	41	40	123	41.00	24,994	164.04
92833	50	67	60	177	59.00	51,164	115.32
92835	30	28	42	100	33.33	21,978	151.67
92840	92	82	88	262	87.33	52,292	167.01
92841	43	52	39	134	44.67	31,679	141.00
92843	76	68	69	213	71.00	45,226	156.99
92844	28	28	32	88	29.33	24,948	117.58
92845	23	18	34	75	25.00	15,593	160.33
92861	5	7	11	23	7.67	6,006	127.65
92862	0	0	1	1	0.33	19	1,754.39
92865	31	15	23	69	23.00	18,312	125.60
92866	25	29	25	79	26.33	16,211	162.44
92867	57	54	35	146	48.67	43,488	111.91
92868	43	36	45	124	41.33	24,030	172.01
92869	34	46	51	131	43.67	40,790	107.05
92870	45	34	73	152	50.67	51,262	98.84
92886	50	43	65	158	52.67	43,875	120.04
92887	24	10	13	47	15.67	23,598	66.39
Unknown	60	46	62	168	56.00		
Total	3,803	3,823	4,081	11,707	3,902.33	3,039,607	128.38

Source of Population: Claritas 2006

Hospitalizations with Staph Diagnosis* Rates by ZIP Code of Residence (2004-2006)



*Includes hospitalizations with principal or other diagnoses of hospital and community acquired staph infections, as well as Methicillin-resistant Staphylococcus aureus (MRSA).

1.44% of total hospital admissions (168/11,707) with inaccurate ZIP codes or post office box addresses are not displayed on the map

Data Source: Patient Discharge Data, Office of Statewide Health Planning & Development

Section 5: 2005 Mortality

Section 5

2005 Mortality

Mortality

Mortality or death is an event of significant loss to an individual, their family, and the community. A major role of the health services is to reduce the risks of untimely deaths through prevention and treatment, in order to assure a healthy and productive life to all the members of a society.

In 2005 there were 16,804 resident deaths in Orange County. The leading causes of death include heart disease, cancer (e.g., lung, colon, breast, prostate), cerebrovascular disease (i.e., stroke), chronic lower respiratory disease (e.g., chronic obstructive pulmonary disease, emphysema), unintentional injuries (e.g., motor vehicle traffic, accidental poisoning, falls), Alzheimer's Disease, Influenza/Pneumonia, and Diabetes. In this section we present the geographic distribution of these leading causes of death at the ZIP code level. We limit this geographic analysis to the top twelve causes for two reasons. First, in order to break out an indicator, a sufficient number of cases are necessary (e.g., > 500 is optimal) and secondly, mortality data are presented in great detail elsewhere (see Orange County Mortality reports on the web at: <http://www.ochealthinfo.com/epi/statistics.htm#Mortality>).

Many of these mortality indicators are related to the behavior of the individual, and therefore are considered to be highly preventable. For example, deaths related to chronic disease conditions such as lung or colon cancer are known to be preventable by early detection and perhaps by changes in health behavior. Healthy diet and regular exercise are also known to improve a person's health and help reduce one's risk of certain forms of cancer, heart disease, stroke and diabetes which are all leading causes of death in Orange County, the state and nation. Smoking is a major contributor to lung cancer, the most common cause of cancer deaths. Additionally, cigarette smoke accounts for over 80% of all cases of chronic obstructive lung disease. Besides causing tragic loss of life, these diseases are also responsible for causing considerable amount of acute and chronic morbidity and are of concern to the public, healthcare community and policy makers.

Mortality Indicators

This section of the report is divided into two parts. The first part presents tables showing the leading causes of death in the County by gender, age group and race/ethnicity. The second part contains tables and maps for each of the mortality indicators discussed below. These tables and maps display the crude death rates for each geographic ZIP code area in Orange County by gender and age group. Rates and occurrences from post office box zip codes and community areas wholly contained within a geographic ZIP code are attributed to the larger geographic ZIP code. 'All causes of death' was used as the thirteenth category in this report. Infant mortality is analyzed separately and the results can be found in Section 9.

All Causes of Death – Deaths due to all causes are analyzed in this category. In 2005, there were 16,804 deaths to Orange County residents.

Heart Disease – Heart disease is not only the leading cause of mortality, but also among the leading causes of disability. The major modifiable risk factors for cardiovascular disease are high blood

pressure, high cholesterol, and cigarette smoking. Other important risk factors are obesity, physical inactivity, and diabetes mellitus. Heart disease is the leading cause of death in 2005 for Orange County residents with 4,784 cases or 28.5% of all deaths.

All Cancer Deaths –Cancer is the second leading cause of death in Orange County, California and the United States, and is not one single disease, but a group of more than 100 different diseases, each characterized by the uncontrolled growth of abnormal cells. Cancer is most common in older people; however, it is not a disease limited strictly to the elderly.

Lung Cancer –Of all types of cancer deaths, lung cancer causes the most number of deaths. Smoking is known to be one of the causes of lung cancer. In 2005, lung cancer claimed 931 lives in Orange County.

Colon Cancer – Cancers of the colon, also called colorectal cancer, includes cancerous growths in the colon, rectum, and appendix. It is third most common form of cancer and the second leading cause of cancer-related death in the county and nation. Colon cancer causes 325 deaths in 2005, where it is the second most common site (after lung) to cause cancer death. Many colorectal cancers are thought to arise from adenomatous polyps in the colon. These mushroom-like growths are usually benign, but some may develop into cancer over time. The majority of the time, the diagnosis of localized colon cancer is through colonoscopy.

Breast Cancer – After lung cancer, breast cancer is the second leading cause of cancer deaths among women. Early detection through mammogram and periodic self-breast exam is one of the keys to prevention and cure. In 2005, breast cancer claimed 295 lives in Orange County.

Prostate Cancer – Prostate cancer is a disease in which cancer develops in the prostate, a gland in the male reproductive system. These cells may metastasize from the prostate to other parts of the body, such as the bones and lymph nodes. Prostate cancer may cause pain, difficulty in urinating and erectile dysfunction. Prostate cancer develops most frequently in men over fifty. This cancer can occur only in men, as the prostate is exclusively of the male reproductive tract. It is the most common type of cancer in men in the United States, where it is responsible for more male deaths than any other cancer, except lung cancer. In 2005, 226 deaths occurred in Orange County due to prostate cancer.

Cerebrovascular Disease (Stroke) – Cerebrovascular disease is associated with the disease of blood vessels. According to the medical literature, it is also a major cause of morbidity with approximately 400,000 to 500,000 Americans suffering from nonfatal strokes each year. In 2005, 1,140 individuals died in Orange County.

Chronic Lower Respiratory Diseases – Chronic Lower Respiratory Diseases (CLRD) refers to chronic diseases that affect the lower respiratory tract (including the lungs). The most prevalent are Chronic Obstructive Pulmonary Disease (COPD), emphysema, chronic bronchitis, and other smoking-related disorders. COPD is also known as chronic obstructive lung disease, disorders that persistently obstruct bronchial airflow. These disease processes cause chronic obstruction of air flowing through the airways and in and out of the lungs. The obstruction is generally permanent and progresses (becomes worse) over time. In asthma there is also obstruction of airflow out of the lungs, but the obstruction is usually reversible and between attacks of asthma the flow of air through the airways is usually good.

Cigarette smoke accounts for over 80% of all cases of chronic obstructive lung disease. It contains irritants that inflame the air passages, setting off a cascade of biochemical events that damage cells in the lung, increasing the risk both for COPD and lung cancer. Different effects of smoking can lead to emphysema or chronic bronchitis, but smokers generally have signs of both conditions. The diagnosis of a specific type of CLRD depends on which disease process predominates. There were 900 deaths in 2005 due to CLRD.

Unintentional Injury Deaths - Unintentional injury deaths are caused by accidents, and are therefore considered preventable. Motor vehicle traffic crashes account for approximately one-third of the deaths from unintentional injuries; falls rank second, followed by poisoning, and drowning. Motor vehicle traffic related deaths are highly preventable deaths. Death to the driver or passenger of a motor vehicle, motorcycle rider or passenger, or pedestrian struck by motor vehicle is covered under this category. In 2005, there were 656 unintentional injury deaths in Orange County.

Alzheimer's Disease – Alzheimer's Disease (AD) is an incurable and degenerative disease, and is the most common form of dementia. It is typically diagnosed in people over 65 years of age, although the less-prevalent early-onset Alzheimer's can occur much earlier. Almost 600 county residents died from Alzheimer's in 2005 and this number is expected to increase as the population ages. The most commonly recognized early symptom is memory loss, and as the disease advances increased confusion, irritability, aggression and profound memory loss are common. Death is a result of gradual loss of neurological control of bodily function.

Influenza and Pneumonia – Influenza is an infectious disease of birds and mammals caused by RNA viruses (the influenza viruses). In humans, common symptoms of the disease are chills and fever, sore throat, muscle pains, severe headache, coughing and general malaise. In more serious cases, influenza causes Pneumonia, which can be fatal, particularly in young children and the elderly. Flu spreads around the world in seasonal epidemics, killing millions of people in pandemic years and hundreds of thousands in non-pandemic years. In 2005, there were 563 influenza and/or pneumonia deaths in Orange County.

Diabetes – Diabetes, the body's failure to metabolize blood sugar properly, is an increasing health problem affecting the United States and the rest of the world. There are many health problems caused by diabetes such as heart disease, stroke, nerve damage, and kidney problems among many others. In 2005, there were 500 deaths due to diabetes in Orange County.

Leading Causes of Death by Age Group

Children 0-17 years – In 2005 there were 337 deaths to children 0-17 years. The leading causes of death for children include conditions that arise early in life during the perinatal period (e.g., newborn affected by maternal complications; n=115) and congenital malformations (n=70) such as heart defects. Later in childhood and adolescence, deaths due to injury become more prevalent. For example motor vehicle traffic, drowning, homicide and suicide are more common, albeit relatively low numbers of cases of teenagers.

Young Adults (18-44 years) – Of the nearly 1,000 deaths to this age group in 2005, the most common (27%) were due to unintentional injuries such as motor vehicle traffic-related deaths (n=116) and accidental poisonings (n=100). Cancer was the second most common cause of death at 19% (n=177)

for this age group. Suicide and heart disease each account for almost 10% of premature mortality. About 5% of deaths to young adults in the county were due to homicide.

Middle Aged Adults (45-64 years) – Over a third (36%) of all deaths in this age group were due to cancer, followed by the number two killer, heart disease at 22%. Cirrhosis, stroke and diabetes move into the top 10 causes for 45 to 64 year olds at about 5% each of total annual deaths (n=2,756).

Older Adults (65 years and older) – Seniors in the county account for 77% of all deaths (n=12,752). Heart disease (n=4,124) and Cancer (n=2,914) account for over half of all older adult deaths, 32% and 23%, respectively in this age group. Stroke, CLRD, Alzheimer’s, Influenza & Pneumonia, and Diabetes account for another 3,300 or 25% of deaths.

Tables: Leading Causes of Deaths – Orange County Residents by Gender, Age Group & Race/Ethnicity

- **Table 5.1:** Leading Causes of Death, All Residents
- **Table 5.2:** Leading Causes of Death, Males
- **Table 5.3:** Leading Causes of Death, Females
- **Table 5.4** Leading Causes of Death, 0 to 17 years old
- **Table 5.5** Leading Causes of Death, 18 to 44 years old
- **Table 5.6** Leading Causes of Death, 45 to 64 years old
- **Table 5.7** Leading Causes of Death, 65 and older
- **Table 5.8:** Leading Causes of Death, Non-Hispanic Whites
- **Table 5.9:** Leading Causes of Death, Hispanics
- **Table 5.10:** Leading Causes of Death, South East Asians
- **Table 5.11:** Leading Causes of Death, North East Asians & Pacific Islanders
- **Table 5.12:** Leading Causes of Death, Non-Hispanic Blacks

Tables and Maps: Crude Death Rates by ZIP Code of Residence

- **5.13:** All Resident Deaths, OC, 2005
- **5.14:** Deaths to OC Males
- **5.15:** Deaths to OC Females
- **5.16:** Deaths to OC residents 0 to 17 years
- **5.17:** Deaths to OC residents 18 to 44 years
- **5.18:** Deaths to OC residents 45 to 64 years
- **5.19:** Deaths to OC residents 65 years and older
- **5.20:** Heart Disease Deaths – all ages
- **5.21:** Cancer Deaths – all ages
- **5.22:** Lung Cancer Deaths – all ages
- **5.23:** Colon Cancer Deaths – all ages
- **5.24:** Breast Cancer Deaths – females
- **5.25:** Prostate Cancer Deaths – males
- **5.26:** Unintentional Injury Deaths – all ages
- **5.27:** Alzheimer’s Disease Deaths – all ages
- **5.28:** Influenza & Pneumonia Deaths – all ages
- **5.29:** Diabetes Deaths – all ages

Data Source: State of California 2005 Death Master File provided by HCA Epidemiology & Assessment

**Table 5.1: Leading Causes of Death
All Residents, Orange County, 2005**

Rank	Disease	Deaths	%
1	Heart Disease	4,784	28.5
	<i>Ischemic Heart Disease</i>	3,609	21.5
	<i>Cardiomyopathy</i>	225	1.3
2	Cancer	4,092	24.4
	<i>Lung Cancer</i>	931	5.5
	<i>Colon Cancer</i>	325	1.9
	<i>Breast Cancer</i>	295	1.8
	<i>Prostate Cancer</i>	226	1.3
	<i>Leukemia</i>	156	0.9
3	Cerebrovascular Disease	1,140	6.8
4	Lung Disease (CLRD)	900	5.4
5	Unintentional Injury	656	3.9
	<i>Motor Vehicle Traffic</i>	209	1.2
	<i>Accidental Poisoning</i>	180	1.1
	<i>Accidental Falls</i>	129	0.8
	<i>Drowning and Submersion</i>	30	0.2
6	Alzheimer's Disease	599	3.6
7	Influenza & Pneumonia	563	3.4
8	Diabetes	500	3.0
9	Cirrhosis	242	1.4
10	Suicide	237	1.4
11	Hypertension	233	1.4
12	Parkinson's Disease	160	1.0
13	Nephritis, Nephrotic Syndrome	158	0.9
14	Atherosclerosis	142	0.8
15	Perinatal Conditions	116	0.7
16	Congenital Malformations	98	0.6
17	Aortic Aneurysm	96	0.6
18	Homicide	77	0.5
19	AIDS	54	0.3
	All Other Causes	1,957	11.6
	TOTAL	16,804	100.0

**Table 5.2: Leading Causes of Death
Males, Orange County, 2005**

Rank	Disease	Deaths	%
1	Heart Disease	2,336	28.5
	<i>Ischemic Heart Disease</i>	<i>1,835</i>	<i>22.4</i>
	<i>Cardiomyopathy</i>	<i>128</i>	<i>1.6</i>
2	Cancer	2,107	25.7
	<i>Lung Cancer</i>	<i>500</i>	<i>6.1</i>
	<i>Prostate Cancer</i>	<i>226</i>	<i>2.8</i>
	<i>Colon Cancer</i>	<i>154</i>	<i>1.9</i>
	<i>Leukemia</i>	<i>88</i>	<i>1.1</i>
	<i>Breast Cancer</i>	<i>1</i>	<i>0.0</i>
3	Cerebrovascular Disease	440	5.4
4	Unintentional Injury	427	5.2
	<i>Motor Vehicle Traffic</i>	<i>147</i>	<i>1.8</i>
	<i>Accidental Poisoning</i>	<i>113</i>	<i>1.4</i>
	<i>Accidental Falls</i>	<i>72</i>	<i>0.9</i>
	<i>Drowning and Submersion</i>	<i>22</i>	<i>0.3</i>
5	Lung Disease (CLRD)	407	5.0
6	Diabetes	254	3.1
7	Influenza & Pneumonia	232	2.8
8	Suicide	179	2.2
9	Alzheimer's Disease	171	2.1
10	Cirrhosis	166	2.0
11	Parkinson's Disease	90	1.1
12	Nephritis, Nephrotic Syndrome	86	1.1
13	Hypertension	83	1.0
14	Perinatal Conditions	69	0.8
15	Homicide	55	0.7
16	Aortic Aneurysm	49	0.6
17	Congenital Malformations	48	0.6
18	Atherosclerosis	46	0.6
19	AIDS	43	0.5
	All Other Causes	898	11.0
	TOTAL	8,186	100.0

**Table 5.3: Leading Causes of Death
Females, Orange County, 2005**

Rank	Disease	Deaths	%
1	Heart Disease	2,448	28.4
	<i>Ischemic Heart Disease</i>	1,774	20.6
	<i>Cardiomyopathy</i>	97	1.1
2	Cancer	1,985	23.0
	<i>Lung Cancer</i>	431	5.0
	<i>Breast Cancer</i>	294	3.4
	<i>Colon Cancer</i>	171	2.0
	<i>Leukemia</i>	68	0.8
3	Cerebrovascular Disease	700	8.1
4	Lung Disease (CLRD)	493	5.7
5	Alzheimer's Disease	428	5.0
6	Influenza & Pneumonia	331	3.8
7	Diabetes	246	2.9
8	Unintentional Injury	229	2.7
	<i>Accidental Poisoning</i>	67	0.8
	<i>Motor Vehicle Traffic</i>	62	0.7
	<i>Accidental Falls</i>	57	0.7
	<i>Drowning and Submersion</i>	8	0.1
9	Hypertension	150	1.7
10	Atherosclerosis	96	1.1
11	Cirrhosis	76	0.9
12	Nephritis, Nephrotic Syndrome	72	0.8
13	Parkinson's Disease	70	0.8
14	Suicide	58	0.7
15	Congenital Malformations	50	0.6
16	Aortic Aneurysm	47	0.5
17	Perinatal Conditions	47	0.5
18	Homicide	22	0.3
19	AIDS	11	0.1
	All Other Causes	1,059	12.3
	TOTAL	8,618	100.0

**Table 5.4: Leading Causes of Death
0-17 Yrs, Orange County, 2005**

Rank	Disease	Deaths	%
1	Perinatal Conditions	115	34.1
2	Congenital Malformations	70	20.8
3	Unintentional Injury	38	11.3
	<i>Motor Vehicle Traffic</i>	<i>16</i>	<i>4.7</i>
	<i>Drowning and Submersion</i>	<i>10</i>	<i>3.0</i>
	<i>Accidental Falls</i>	<i>3</i>	<i>0.9</i>
4	Cancer	17	5.0
	<i>Leukemia</i>	<i>5</i>	<i>1.5</i>
	<i>Lung Cancer</i>	<i>1</i>	<i>0.3</i>
5	Homicide	13	3.9
6	Suicide	9	2.7
7	Heart Disease	7	2.1
	<i>Cardiomyopathy</i>	<i>1</i>	<i>0.3</i>
8	Lung Disease (CLRD)	3	0.9
10	Cerebrovascular Disease	2	0.6
11	Influenza & Pneumonia	2	0.6
12	Diabetes	1	0.3
	All Other Causes	60	17.8
	TOTAL	337	100.0

**Table 5.5: Leading Causes of Death
18-44 Yrs, Orange County 2005**

Rank	Disease	Deaths	%
1	Unintentional Injury	260	27.1
	<i>Motor Vehicle Traffic</i>	<i>116</i>	<i>12.1</i>
	<i>Accidental Poisoning</i>	<i>100</i>	<i>10.4</i>
	<i>Accidental Falls</i>	<i>7</i>	<i>0.7</i>
	<i>Drowning and Submersion</i>	<i>4</i>	<i>0.4</i>
2	Cancer	177	18.5
	<i>Breast Cancer</i>	<i>24</i>	<i>2.5</i>
	<i>Leukemia</i>	<i>17</i>	<i>1.8</i>
	<i>Lung Cancer</i>	<i>13</i>	<i>1.4</i>
	<i>Colon Cancer</i>	<i>11</i>	<i>1.1</i>
3	Suicide	93	9.7
4	Heart Disease	84	8.8
	<i>Ischemic Heart Disease</i>	<i>45</i>	<i>4.7</i>
	<i>Cardiomyopathy</i>	<i>16</i>	<i>1.7</i>
5	Homicide	46	4.8
6	Cirrhosis	32	3.3
7	AIDS	28	2.9
8	Diabetes	16	1.7
9	Cerebrovascular Disease	16	1.7
10	Congenital Malformations	14	1.5
11	Influenza & Pneumonia	12	1.3
12	Aortic Aneurysm	5	0.5
13	Lung Disease (CLRD)	5	0.5
14	Nephritis, Nephrotic Syndrome	4	0.4
15	Hypertension	1	0.1
	All Other Causes	166	17.3
	TOTAL	959	100.0

**Table 5.6: Leading Causes of Death
45-64 Yrs, Orange County, 2005**

Rank	Disease	Deaths	%
1	Cancer	984	35.7
	<i>Lung Cancer</i>	200	7.3
	<i>Breast Cancer</i>	102	3.7
	<i>Colon Cancer</i>	61	2.2
	<i>Leukemia</i>	41	1.5
	<i>Prostate Cancer</i>	20	0.7
2	Heart Disease	569	20.6
	<i>Ischemic Heart Disease</i>	405	14.7
	<i>Cardiomyopathy</i>	48	1.7
3	Unintentional Injury	180	6.5
	<i>Accidental Poisoning</i>	68	2.5
	<i>Motor Vehicle Traffic</i>	51	1.9
	<i>Accidental Falls</i>	16	0.6
	<i>Drowning and Submersion</i>	11	0.4
4	Cirrhosis	130	4.7
5	Cerebrovascular Disease	128	4.6
6	Diabetes	114	4.1
7	Suicide	86	3.1
8	Lung Disease (CLRD)	77	2.8
9	Nephritis, Nephrotic Syndrome	24	0.9
10	AIDS	21	0.8
11	Influenza & Pneumonia	21	0.8
12	Hypertension	16	0.6
13	Aortic Aneurysm	14	0.5
14	Homicide	12	0.4
15	Atherosclerosis	6	0.2
16	Congenital Malformations	6	0.2
17	Alzheimer's Disease	3	0.1
18	Parkinson's Disease	2	0.1
19	Perinatal Conditions	1	0.0
	All Other Causes	362	13.1
	TOTAL	2,756	100.0

**Table 5.7: Leading Causes of Death
65 and Over, Orange County, 2005**

Rank	Disease	Deaths	%
1	Heart Disease	4,124	32.3
	<i>Ischemic Heart Disease</i>	<i>3,159</i>	<i>24.8</i>
	<i>Cardiomyopathy</i>	<i>160</i>	<i>1.3</i>
2	Cancer	2,914	22.9
	<i>Lung Cancer</i>	<i>717</i>	<i>5.6</i>
	<i>Colon Cancer</i>	<i>253</i>	<i>2.0</i>
	<i>Prostate Cancer</i>	<i>206</i>	<i>1.6</i>
	<i>Breast Cancer</i>	<i>169</i>	<i>1.3</i>
	<i>Leukemia</i>	<i>93</i>	<i>0.7</i>
3	Cerebrovascular Disease	994	7.8
4	Lung Disease (CLRD)	815	6.4
5	Alzheimer's Disease	596	4.7
6	Influenza & Pneumonia	528	4.1
7	Diabetes	369	2.9
8	Hypertension	216	1.7
9	Unintentional Injury	178	1.4
	<i>Accidental Falls</i>	<i>103</i>	<i>0.8</i>
	<i>Motor Vehicle Traffic</i>	<i>26</i>	<i>0.2</i>
	<i>Accidental Poisoning</i>	<i>12</i>	<i>0.1</i>
	<i>Drowning and Submersion</i>	<i>5</i>	<i>0.0</i>
10	Parkinson's Disease	158	1.2
11	Atherosclerosis	136	1.1
12	Nephritis, Nephrotic Syndrome	130	1.0
13	Cirrhosis	80	0.6
14	Aortic Aneurysm	77	0.6
15	Suicide	49	0.4
16	Congenital Malformations	8	0.1
17	Homicide	6	0.0
18	AIDS	5	0.0
	All Other Causes	1,369	10.7
	TOTAL	12,752	100.0

**Table 5.8: Leading Causes of Death
Non-Hispanic Whites, Orange County, 2005**

Rank	Disease	Deaths	%
1	Heart Disease	3,933	30.1
	<i>Ischemic Heart Disease</i>	2,957	22.7
	<i>Cardiomyopathy</i>	184	1.4
2	Cancer	3,120	23.9
	<i>Lung Cancer</i>	757	5.8
	<i>Colon Cancer</i>	262	2.0
	<i>Breast Cancer</i>	226	1.7
	<i>Prostate Cancer</i>	176	1.3
	<i>Leukemia</i>	116	0.9
3	Cerebrovascular Disease	887	6.8
4	Lung Disease (CLRD)	805	6.2
5	Alzheimer's Disease	538	4.1
6	Unintentional Injury	456	3.5
	<i>Accidental Poisoning</i>	142	1.1
	<i>Motor Vehicle Traffic</i>	118	0.9
	<i>Accidental Falls</i>	104	0.8
	<i>Drowning and Submersion</i>	16	0.1
7	Influenza & Pneumonia	445	3.4
8	Diabetes	300	2.3
9	Suicide	177	1.4
10	Hypertension	174	1.3
11	Cirrhosis	154	1.2
12	Parkinson's Disease	131	1.0
13	Atherosclerosis	125	1.0
14	Nephritis, Nephrotic Syndrome	109	0.8
15	Aortic Aneurysm	78	0.6
16	Perinatal Conditions	41	0.3
17	Congenital Malformations	36	0.3
18	AIDS	30	0.2
19	Homicide	21	0.2
	All Other Causes	1,487	11.4
	TOTAL	13,047	100.0

**Table 5.9: Leading Causes of Death
Hispanics, Orange County 2005**

Rank	Disease	Deaths	%
1	Cancer	431	22.4
	<i>Lung Cancer</i>	51	2.7
	<i>Breast Cancer</i>	37	1.9
	<i>Colon Cancer</i>	28	1.5
	<i>Prostate Cancer</i>	28	1.5
	<i>Leukemia</i>	26	1.4
2	Heart Disease	402	20.9
	<i>Ischemic Heart Disease</i>	298	15.5
	<i>Cardiomyopathy</i>	28	1.5
3	Unintentional Injury	127	6.6
	<i>Motor Vehicle Traffic</i>	59	3.1
	<i>Accidental Poisoning</i>	28	1.5
	<i>Accidental Falls</i>	11	0.6
	<i>Drowning and Submersion</i>	6	0.3
4	Cerebrovascular Disease	121	6.3
5	Diabetes	110	5.7
6	Cirrhosis	68	3.5
7	Perinatal Conditions	62	3.2
8	Influenza & Pneumonia	48	2.5
9	Lung Disease (CLRD)	44	2.3
10	Congenital Malformations	43	2.2
11	Alzheimer's Disease	40	2.1
12	Homicide	38	2.0
13	Suicide	25	1.3
14	Hypertension	23	1.2
15	Nephritis, Nephrotic Syndrome	23	1.2
16	AIDS	18	0.9
17	Parkinson's Disease	14	0.7
18	Atherosclerosis	11	0.6
19	Aortic Aneurysm	5	0.3
	All Other Causes	271	14.1
	TOTAL	1,924	100.0

**Table 5.10: Leading Causes of Death
Southeast Asians, Orange County, 2005**

Rank	Disease	Deaths	%
1	Cancer	183	31.2
	<i>Lung Cancer</i>	48	8.2
	<i>Breast Cancer</i>	7	1.2
	<i>Leukemia</i>	6	1.0
	<i>Colon Cancer</i>	5	0.9
	<i>Prostate Cancer</i>	2	0.3
2	Heart Disease	116	19.8
	<i>Ischemic Heart Disease</i>	93	15.9
	<i>Cardiomyopathy</i>	3	0.5
3	Cerebrovascular Disease	54	9.2
4	Diabetes	29	4.9
5	Influenza & Pneumonia	23	3.9
6	Lung Disease (CLRD)	20	3.4
7	Unintentional Injury	19	3.2
	<i>Motor Vehicle Traffic</i>	8	1.4
	<i>Accidental Falls</i>	4	0.7
	<i>Accidental Poisoning</i>	4	0.7
8	Suicide	13	2.2
9	Nephritis, Nephrotic Syndrome	9	1.5
10	Alzheimer's Disease	7	1.2
11	Hypertension	7	1.2
12	Cirrhosis	7	1.2
13	Congenital Malformations	7	1.2
14	Homicide	6	1.0
15	Perinatal Conditions	5	0.9
16	Aortic Aneurysm	4	0.7
17	Parkinson's Disease	2	0.3
18	Atherosclerosis	1	0.2
	All Other Causes	74	12.6
	TOTAL	586	100.0

**Table 5.11: Leading Causes of Death
NE Asians & Pacific Islanders, Orange County, 2005**

Rank	Disease	Deaths	%
1	Cancer	287	30.0
	<i>Lung Cancer</i>	55	5.8
	<i>Colon Cancer</i>	22	2.3
	<i>Breast Cancer</i>	20	2.1
	<i>Prostate Cancer</i>	14	1.5
	<i>Leukemia</i>	8	0.8
2	Heart Disease	253	26.5
	<i>Ischemic Heart Disease</i>	205	21.4
	<i>Cardiomyopathy</i>	6	0.6
3	Cerebrovascular Disease	70	7.3
4	Diabetes	40	4.2
5	Influenza & Pneumonia	38	4.0
6	Unintentional Injury	38	4.0
	<i>Motor Vehicle Traffic</i>	19	2.0
	<i>Accidental Falls</i>	9	0.9
	<i>Drowning and Submersion</i>	7	0.7
	<i>Accidental Poisoning</i>	3	0.3
7	Lung Disease (CLRD)	27	2.8
8	Hypertension	21	2.2
9	Suicide	16	1.7
10	Alzheimer's Disease	12	1.3
11	Nephritis, Nephrotic Syndrome	12	1.3
12	Parkinson's Disease	11	1.2
13	Congenital Malformations	10	1.0
14	Homicide	8	0.8
15	Cirrhosis	7	0.7
16	Aortic Aneurysm	6	0.6
17	Atherosclerosis	4	0.4
18	Perinatal Conditions	4	0.4
19	AIDS	1	0.1
	All Other Causes	91	9.5
	TOTAL	956	100.0

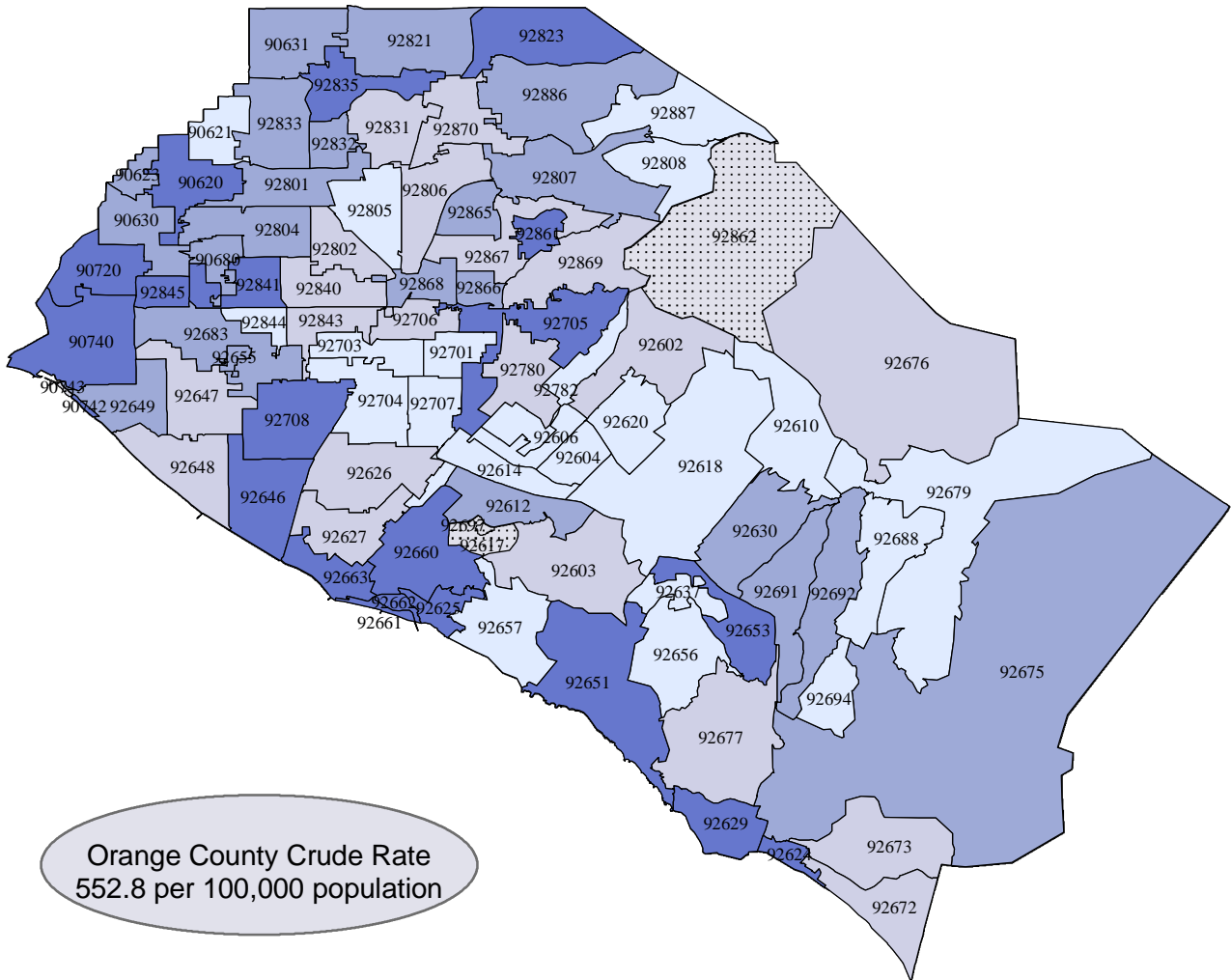
**Table 5.12: Leading Causes of Death
Non-Hispanic Blacks, Orange County, 2005**

Rank	Disease	Deaths	%
1	Heart Disease	64	28.1
	<i>Ischemic Heart Disease</i>	45	19.7
	<i>Cardiomyopathy</i>	2	0.9
2	Cancer	63	27.6
	<i>Lung Cancer</i>	18	7.9
	<i>Colon Cancer</i>	7	3.1
	<i>Breast Cancer</i>	5	2.2
	<i>Prostate Cancer</i>	4	1.8
3	Diabetes	16	7.0
4	Unintentional Injury	12	5.3
	<i>Motor Vehicle Traffic</i>	4	17.4
	<i>Accidental Poisoning</i>	2	8.7
	<i>Accidental Falls</i>	1	4.3
	<i>Drowning and Submersion</i>	1	4.3
5	Hypertension	7	3.1
6	Cerebrovascular Disease	6	2.6
7	AIDS	5	2.2
8	Influenza & Pneumonia	5	2.2
9	Nephritis, Nephrotic Syndrome	4	1.8
10	Suicide	4	1.8
11	Homicide	4	1.8
12	Cirrhosis	3	1.3
13	Perinatal Conditions	3	1.3
14	Alzheimer's Disease	2	0.9
15	Lung Disease (CLRD)	2	0.9
16	Congenital Malformations	2	0.9
17	Parkinson's Disease	1	0.4
18	Atherosclerosis	1	0.4
19	Aortic Aneurysm	1	0.4
	All Other Causes	23	10.1
	TOTAL	228	100.0

Table 5.13
Orange County
All Causes of Death, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population	Rate per 100,000	ZIP Code	2005	2005 Population	Rate per 100,000
90620	312	44,784	696.7	92679	73	41,144	177.4
90621	144	35,542	405.2	92683	589	90,906	647.9
90623	105	16,010	655.8	92688	102	48,489	210.4
90630	301	47,768	630.1	92691	313	47,848	654.2
90631	408	69,005	591.3	92692	316	48,045	657.7
90680	191	32,188	593.4	92694	31	18,000	172.2
90720	174	23,451	742.0	92697	0	824	0.0
90740	520	24,461	2125.8	92701	150	58,268	257.4
90742	6	887	676.4	92703	231	73,474	314.4
90743	2	451	443.5	92704	280	91,875	304.8
92602	32	6,242	512.7	92705	322	47,004	685.0
92603	46	10,798	426.0	92706	200	36,737	544.4
92604	120	30,220	397.1	92707	213	65,020	327.6
92606	46	22,701	202.6	92708	415	55,613	746.2
92610	25	15,617	160.1	92780	254	56,454	449.9
92612	150	24,115	622.0	92782	41	19,938	205.6
92614	61	25,582	238.4	92801	376	57,972	648.6
92617	3	13,054	23.0	92802	245	46,292	529.2
92618	34	8,758	388.2	92804	544	90,617	600.3
92620	110	41,705	263.8	92805	263	70,455	373.3
92624	67	7,753	864.2	92806	181	33,614	538.5
92625	120	12,552	956.0	92807	209	34,336	608.7
92626	248	47,669	520.3	92808	69	21,259	324.6
92627	304	64,586	470.7	92821	223	37,003	602.7
92629	190	28,129	675.5	92823	14	1,867	749.9
92630	379	59,550	636.4	92831	178	35,260	504.8
92637	13	15,568	83.5	92832	155	24,994	620.1
92646	412	56,447	729.9	92833	287	51,164	560.9
92647	303	60,592	500.1	92835	247	21,978	1123.9
92648	256	46,400	551.7	92840	271	52,292	518.2
92649	202	34,184	590.9	92841	218	31,679	688.2
92651	167	25,180	663.2	92843	208	45,226	459.9
92653	899	31,899	2818.3	92844	83	24,948	332.7
92655	55	9,049	607.8	92845	122	15,593	782.4
92656	119	45,422	262.0	92861	43	6,006	716.0
92657	21	8,006	262.3	92862	0	19	0.0
92660	223	33,292	669.8	92865	115	18,312	628.0
92661	38	3,951	961.8	92866	101	16,211	623.0
92662	24	2,897	828.4	92867	232	43,488	533.5
92663	170	22,191	766.1	92868	138	24,030	574.3
92672	208	39,328	528.9	92869	196	40,790	480.5
92673	115	22,057	521.4	92870	272	51,262	530.6
92675	245	38,072	643.5	92886	252	43,875	574.4
92676	11	2,089	526.6	92887	73	23,598	309.3
92677	310	65,626	472.4	Other/Unknown	70		
Total					16,804	3,039,607	552.8

Orange County Deaths by ZIP Code of Residence (2005)

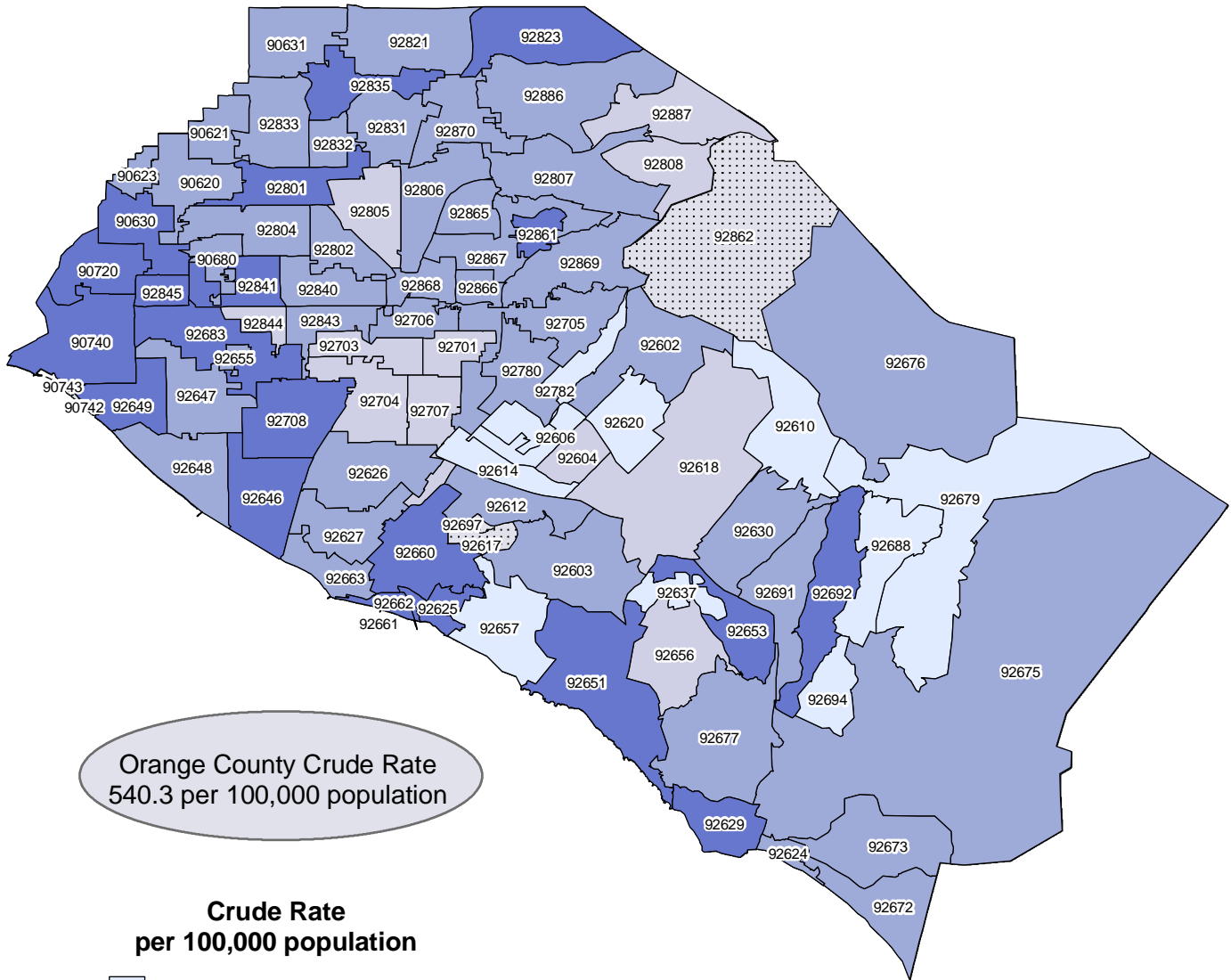


Data Source: State of California 2005 Death Master File

Table 5.14
Orange County
Deaths to Males, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Male Population	Rate per 100,000	ZIP Code	2005	2005 Male Population	Rate per 100,000	
90620	143	22,141	645.9	92679	38	20,567	184.8	
90621	72	17,799	404.5	92683	310	45,568	680.3	
90623	49	7,830	625.8	92688	47	23,844	197.1	
90630	165	23,288	708.5	92691	126	23,521	535.7	
90631	201	34,163	588.4	92692	164	23,389	701.2	
90680	87	16,270	534.7	92694	18	9,180	196.1	
90720	77	11,291	682.0	92697	0	403	0.0	
90740	232	10,770	2,154.1	92701	86	30,551	281.5	
90742	1	484	206.6	92703	128	39,001	328.2	
90743	0	242	0.0	92704	148	47,149	313.9	
92602	19	3,091	614.7	92705	142	23,246	610.9	
92603	26	5,205	499.5	92706	85	18,691	454.8	
92604	45	14,565	309.0	92707	112	33,727	332.1	
92606	21	11,145	188.4	92708	193	27,261	708.0	
92610	13	7,801	166.6	92780	124	27,743	447.0	
92612	73	11,656	626.3	92782	23	9,820	234.2	
92614	33	12,383	266.5	92801	191	28,826	662.6	
92617	2	6,304	31.7	92802	125	23,411	533.9	
92618	15	4,760	315.1	92804	273	45,035	606.2	
92620	51	20,328	250.9	92805	133	36,392	365.5	
92624	25	3,943	634.0	92806	95	16,968	559.9	
92625	56	5,987	935.4	92807	97	16,787	577.8	
92626	130	23,982	542.1	92808	41	10,536	389.1	
92627	139	33,521	414.7	92821	103	18,101	569.0	
92629	101	14,013	720.8	92823	6	901	665.9	
92630	163	29,343	555.5	92831	89	17,743	501.6	
92637	5	5,351	93.4	92832	80	12,601	634.9	
92646	188	27,967	672.2	92833	139	25,345	548.4	
92647	161	30,707	524.3	92835	111	10,475	1,059.7	
92648	105	23,379	449.1	92840	136	26,004	523.0	
92649	111	17,172	646.4	92841	117	15,827	739.2	
92651	88	12,817	686.6	92843	110	22,949	479.3	
92653	416	15,403	2,700.8	92844	43	12,693	338.8	
92655	29	4,577	633.6	92845	64	7,612	840.8	
92656	60	22,053	272.1	92861	25	3,019	828.1	
92657	9	3,914	229.9	92862	0	10	0.0	
92660	114	16,225	702.6	92865	57	9,060	629.1	
92661	21	2,088	1,005.7	92866	42	7,920	530.3	
92662	12	1,284	934.6	92867	127	21,787	582.9	
92663	72	11,576	622.0	92868	60	12,863	466.5	
92672	96	20,075	478.2	92869	102	20,300	502.5	
92673	62	11,087	559.2	92870	133	25,441	522.8	
92675	100	18,798	532.0	92886	116	21,465	540.4	
92676	6	1,075	558.1	92887	41	11,632	352.5	
92677	147	31,948	460.1	Other/Unknown	45			
Source of Population: Claritas 2005					Total	8,186	1,515,165	540.3

Orange County Males Deaths by ZIP Code of Residence (2005)



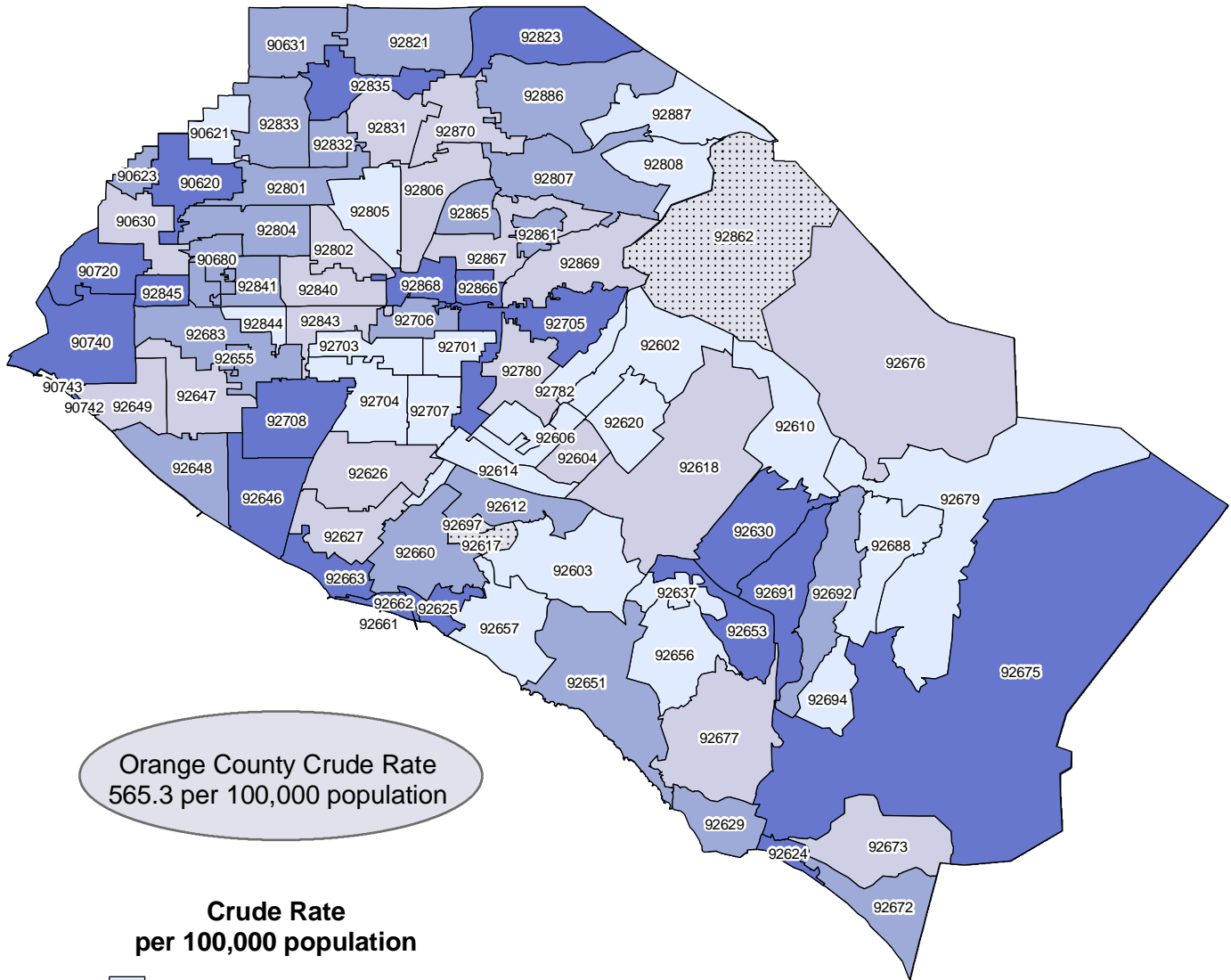
Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

Table 5.15
Orange County
Deaths to Females, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Female Population	Rate per 100,000	ZIP Code	2005	2005 Female Population	Rate per 100,000
90620	169	22,643	746.4	92679	35	20,577	170.1
90621	72	17,743	405.8	92683	279	45,338	615.4
90623	56	8,180	684.6	92688	55	24,645	223.2
90630	136	24,480	555.6	92691	187	24,327	768.7
90631	207	34,842	594.1	92692	152	24,656	616.5
90680	104	15,918	653.3	92694	13	8,820	147.4
90720	97	12,160	797.7	92697	0	421	0.0
90740	288	13,691	2,103.6	92701	64	27,717	230.9
90742	5	403	1,240.7	92703	103	34,473	298.8
90743	2	209	956.9	92704	132	44,726	295.1
92602	13	3,151	412.6	92705	180	23,758	757.6
92603	20	5,593	357.6	92706	115	18,046	637.3
92604	75	15,655	479.1	92707	101	31,293	322.8
92606	25	11,556	216.3	92708	222	28,352	783.0
92610	12	7,816	153.5	92780	130	28,711	452.8
92612	77	12,459	618.0	92782	18	10,118	177.9
92614	28	13,199	212.1	92801	185	29,146	634.7
92617	1	6,750	14.8	92802	120	22,881	524.5
92618	19	3,998	475.2	92804	271	45,582	594.5
92620	59	21,377	276.0	92805	130	34,063	381.6
92624	42	3,810	1,102.4	92806	86	16,646	516.6
92625	64	6,565	974.9	92807	112	17,549	638.2
92626	118	23,687	498.2	92808	28	10,723	261.1
92627	165	31,065	531.1	92821	120	18,902	634.9
92629	89	14,116	630.5	92823	8	966	828.2
92630	216	30,207	715.1	92831	89	17,517	508.1
92637	8	10,217	78.3	92832	75	12,393	605.2
92646	224	28,480	786.5	92833	148	25,819	573.2
92647	142	29,885	475.2	92835	136	11,503	1,182.3
92648	151	23,021	655.9	92840	135	26,288	513.5
92649	91	17,012	534.9	92841	101	15,852	637.1
92651	79	12,363	639.0	92843	98	22,277	439.9
92653	483	16,496	2,928.0	92844	40	12,255	326.4
92655	26	4,472	581.4	92845	58	7,981	726.7
92656	59	23,369	252.5	92861	18	2,987	602.6
92657	12	4,092	293.3	92862	0	9	0.0
92660	109	17,067	638.7	92865	58	9,252	626.9
92661	17	1,863	912.5	92866	59	8,291	711.6
92662	12	1,613	744.0	92867	105	21,701	483.8
92663	98	10,615	923.2	92868	78	11,167	698.5
92672	112	19,253	581.7	92869	94	20,490	458.8
92673	53	10,970	483.1	92870	139	25,821	538.3
92675	145	19,274	752.3	92886	136	22,410	606.9
92676	5	1,014	493.1	92887	32	11,966	267.4
92677	163	33,678	484.0	Other/Unknown	25		
Total					8,618	1,524,442	565.3

Source of Population: Claritas 2005

Orange County Females Deaths by ZIP Code of Residence (2005)

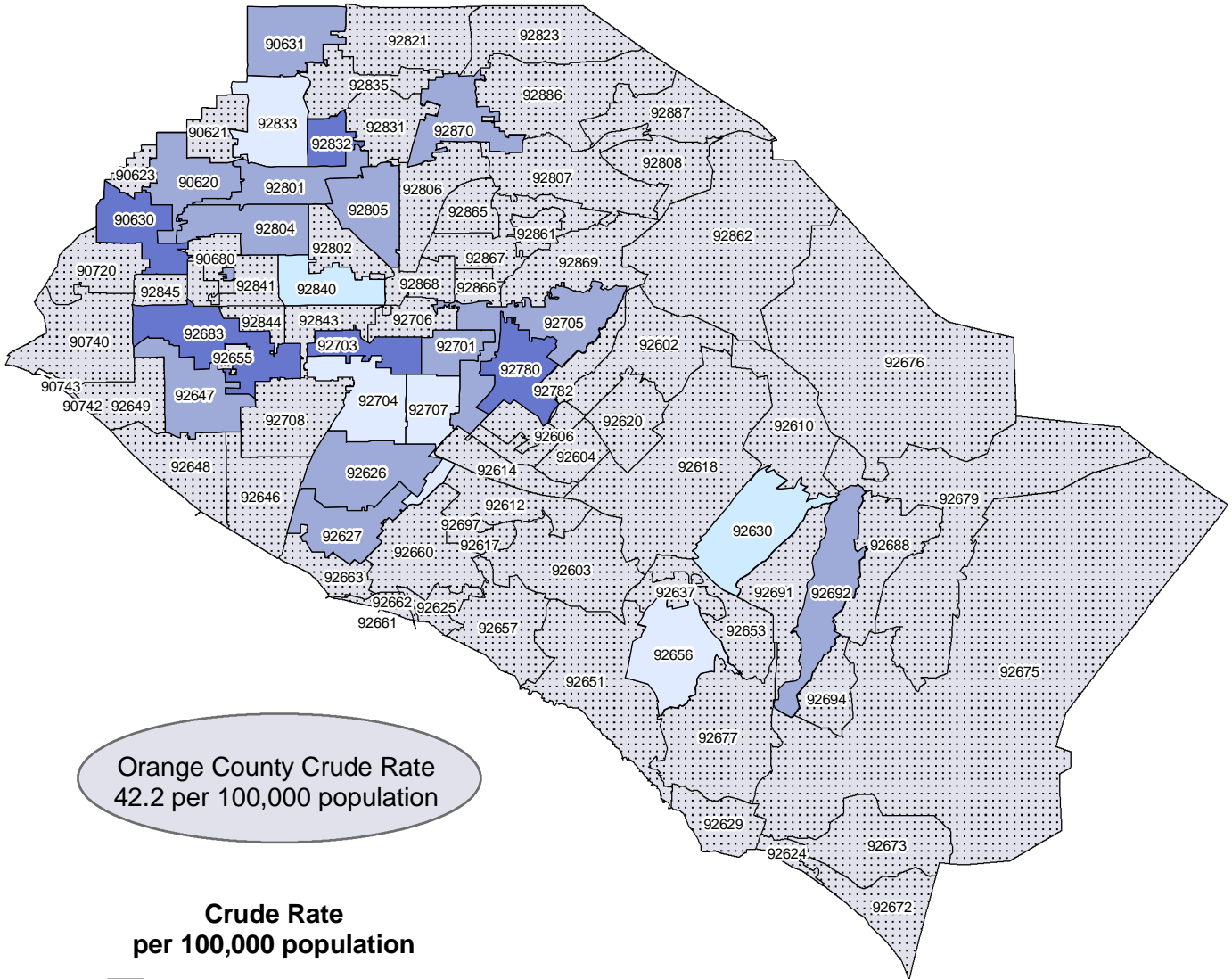


Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

Table 5.16
Orange County
Deaths to 0-17 Yrs, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population of 0-17 Yrs	Rate per 100,000	ZIP Code	2005	2005 Population of 0-17 Yrs	Rate per 100,000	
90620	7	11,723	59.7	92679	2	14,228	14.1	
90621	4	10,927	36.6	92683	17	23,389	72.7	
90623	1	3,480	28.7	92688	0	15,813	0.0	
90630	10	11,849	84.4	92691	1	12,089	8.3	
90631	10	19,223	52.0	92692	7	12,783	54.8	
90680	3	9,473	31.7	92694	2	5,806	34.4	
90720	2	5,520	36.2	92697	0	37	0.0	
90740	2	3,041	65.8	92701	11	21,082	52.2	
90742	0	103	0.0	92703	18	24,016	75.0	
90743	0	90	0.0	92704	12	29,021	41.3	
92602	2	1,837	108.9	92705	9	12,762	70.5	
92603	3	2,452	122.3	92706	3	12,054	24.9	
92604	0	7,158	0.0	92707	8	21,082	37.9	
92606	2	5,593	35.8	92708	4	12,444	32.1	
92610	2	5,127	39.0	92780	12	15,775	76.1	
92612	1	3,583	27.9	92782	1	4,833	20.7	
92614	0	6,141	0.0	92801	9	17,878	50.3	
92617	0	1,202	0.0	92802	4	14,568	27.5	
92618	0	1,568	0.0	92804	14	25,946	54.0	
92620	0	11,468	0.0	92805	15	23,680	63.3	
92624	1	1,694	59.0	92806	4	9,288	43.1	
92625	1	1,782	56.1	92807	3	7,795	38.5	
92626	6	9,680	62.0	92808	1	5,981	16.7	
92627	10	16,588	60.3	92821	1	8,824	11.3	
92629	2	5,447	36.7	92823	0	414	0.0	
92630	7	15,296	45.8	92831	3	7,381	40.6	
92637	0	23	0.0	92832	9	6,988	128.8	
92646	3	12,127	24.7	92833	5	13,733	36.4	
92647	8	15,328	52.2	92835	1	4,618	21.7	
92648	4	8,848	45.2	92840	7	14,182	49.4	
92649	0	6,520	0.0	92841	3	8,422	35.6	
92651	1	4,049	24.7	92843	4	13,730	29.1	
92653	4	7,848	51.0	92844	3	6,840	43.9	
92655	1	2,495	40.1	92845	0	3,752	0.0	
92656	5	12,274	40.7	92861	0	1,285	0.0	
92657	3	1,993	150.5	92862	0	9	0.0	
92660	2	6,725	29.7	92865	2	4,912	40.7	
92661	0	479	0.0	92866	0	4,208	0.0	
92662	0	282	0.0	92867	4	11,911	33.6	
92663	2	2,830	70.7	92868	3	6,198	48.4	
92672	4	8,629	46.4	92869	4	10,477	38.2	
92673	1	6,182	16.2	92870	9	13,196	68.2	
92675	2	10,269	19.5	92886	0	10,992	0.0	
92676	1	419	238.7	92887	2	6,887	29.0	
92677	3	17,144	17.5	Other/Unknown				
Source of Population: Claritas 2005					Total	337	797,818	42.2

Orange County Ages 0 to 17 Years Deaths by ZIP Code of Residence (2005)



Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

Table 5.17
Orange County
Deaths to 18-44 Yrs, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population of 18-44 Yrs	Rate per 100,000	ZIP Code	2005	2005 Population of 18-44 Yrs	Rate per 100,000	
90620	13	16,982	76.6	92679	12	14,455	83.0	
90621	11	15,245	72.2	92683	47	35,867	131.0	
90623	4	5,749	69.6	92688	9	21,456	41.9	
90630	7	17,318	40.4	92691	16	16,717	95.7	
90631	20	26,904	74.3	92692	11	15,792	69.7	
90680	18	13,326	135.1	92694	6	8,765	68.5	
90720	10	7,519	133.0	92697	0	766	0.0	
90740	7	5,695	122.9	92701	20	27,194	73.5	
90742	0	382	0.0	92703	32	34,183	93.6	
90743	0	151	0.0	92704	29	41,160	70.5	
92602	4	3,005	133.1	92705	14	16,957	82.6	
92603	4	3,338	119.8	92706	9	15,665	57.5	
92604	7	10,635	65.8	92707	26	29,764	87.4	
92606	4	10,445	38.3	92708	17	19,865	85.6	
92610	4	6,923	57.8	92780	21	23,702	88.6	
92612	5	11,955	41.8	92782	3	9,159	32.8	
92614	4	10,499	38.1	92801	27	24,620	109.7	
92617	1	10,644	9.4	92802	16	20,030	79.9	
92618	3	4,810	62.4	92804	36	37,586	95.8	
92620	4	15,399	26.0	92805	21	31,506	66.7	
92624	3	2,650	113.2	92806	13	14,589	89.1	
92625	3	4,117	72.9	92807	4	11,670	34.3	
92626	20	21,751	91.9	92808	6	8,661	69.3	
92627	19	30,573	62.1	92821	10	13,880	72.0	
92629	9	10,027	89.8	92823	0	502	0.0	
92630	21	22,799	92.1	92831	7	17,251	40.6	
92637	0	180	0.0	92832	11	11,100	99.1	
92646	23	20,202	113.9	92833	25	19,506	128.2	
92647	25	26,043	96.0	92835	1	7,141	14.0	
92648	21	20,476	102.6	92840	15	21,479	69.8	
92649	8	12,825	62.4	92841	8	12,468	64.2	
92651	9	8,060	111.7	92843	20	19,115	104.6	
92653	10	10,550	94.8	92844	5	10,381	48.2	
92655	4	3,737	107.0	92845	7	5,292	132.3	
92656	15	21,513	69.7	92861	1	1,598	62.6	
92657	2	2,738	73.0	92862	0	8	0.0	
92660	3	9,732	30.8	92865	13	7,138	182.1	
92661	3	1,759	170.6	92866	3	7,052	42.5	
92662	0	930	0.0	92867	13	17,046	76.3	
92663	2	10,379	19.3	92868	11	10,969	100.3	
92672	8	14,800	54.1	92869	13	15,571	83.5	
92673	1	7,100	14.1	92870	14	20,492	68.3	
92675	9	12,631	71.3	92886	12	14,349	83.6	
92676	0	728	0.0	92887	4	8,207	48.7	
92677	12	22,991	52.2	Other/Unknown	11			
<i>Source of Population: Claritas 2005</i>					Total	959	1,216,889	78.8

Orange County Ages 18 to 44 Years Deaths by ZIP Code of Residence (2005)

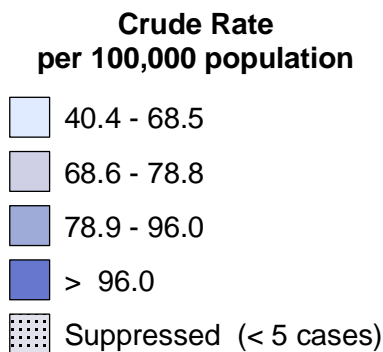
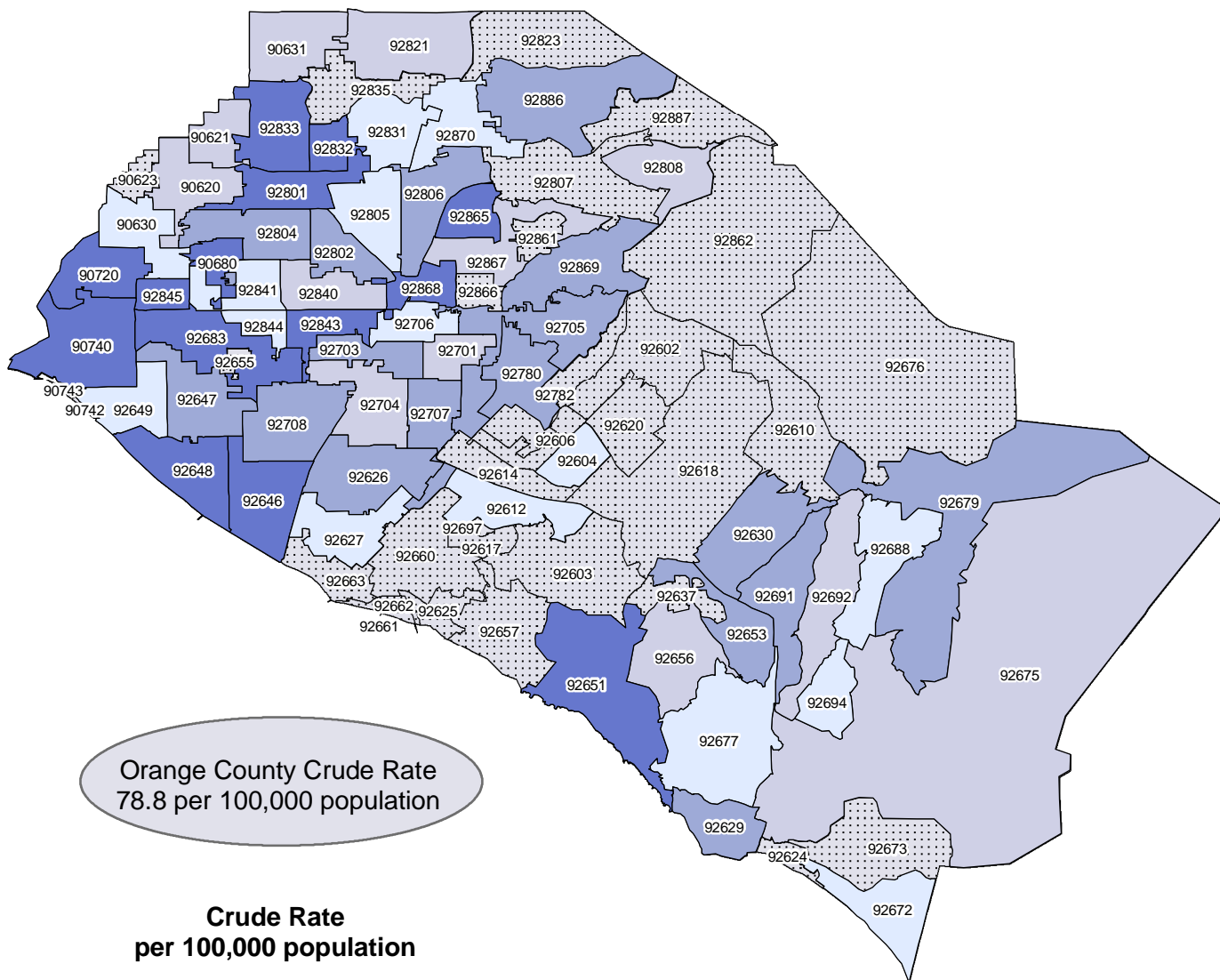


Table 5.18
Orange County
Deaths to 45 - 64 Yrs, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population of 45-64 Yrs	Rate per 100,000	ZIP Code	2005	2005 Population of 45-64 Yrs	Rate per 100,000	
90620	66	10,697	617.0	92679	19	10,724	177.2	
90621	33	6,846	482.0	92683	104	20,965	496.1	
90623	20	4,808	416.0	92688	26	9,402	276.5	
90630	57	12,965	439.6	92691	42	13,744	305.6	
90631	64	15,038	425.6	92692	39	12,832	303.9	
90680	36	5,998	600.2	92694	6	3,180	188.7	
90720	25	6,441	388.1	92697	0	18	0.0	
90740	30	5,936	505.4	92701	31	7,547	410.8	
90742	2	288	694.4	92703	52	11,298	460.3	
90743	1	163	613.5	92704	62	16,031	386.8	
92602	6	1,158	518.1	92705	44	10,973	401.0	
92603	8	3,882	206.1	92706	22	6,172	356.4	
92604	18	9,145	196.8	92707	45	10,779	417.5	
92606	9	5,368	167.7	92708	72	16,170	445.3	
92610	7	3,103	225.6	92780	48	11,768	407.9	
92612	22	5,784	380.4	92782	7	4,801	145.8	
92614	15	7,289	205.8	92801	77	10,353	743.7	
92617	0	991	0.0	92802	48	8,004	599.7	
92618	4	1,927	207.6	92804	90	18,013	499.6	
92620	19	11,859	160.2	92805	59	11,219	525.9	
92624	10	2,285	437.6	92806	42	6,705	626.4	
92625	11	3,993	275.5	92807	34	10,916	311.5	
92626	50	11,035	453.1	92808	11	5,426	202.7	
92627	55	12,820	429.0	92821	40	9,896	404.2	
92629	28	8,727	320.8	92823	5	650	769.2	
92630	45	15,576	288.9	92831	23	7,072	325.2	
92637	0	1,149	0.0	92832	28	4,601	608.6	
92646	59	16,420	359.3	92833	65	12,590	516.3	
92647	63	13,669	460.9	92835	25	5,861	426.5	
92648	44	12,385	355.3	92840	44	11,161	394.2	
92649	37	10,214	362.2	92841	51	7,185	709.8	
92651	32	9,298	344.2	92843	52	8,719	596.4	
92653	36	8,786	409.7	92844	21	5,459	384.7	
92655	8	1,945	411.3	92845	10	4,191	238.6	
92656	32	9,717	329.3	92861	8	2,125	376.5	
92657	0	2,596	0.0	92862	0	2	0.0	
92660	24	10,677	224.8	92865	14	4,194	333.8	
92661	3	1,037	289.3	92866	16	3,320	481.9	
92662	1	998	100.2	92867	40	10,154	393.9	
92663	25	5,605	446.0	92868	35	4,503	777.3	
92672	31	10,299	301.0	92869	32	10,708	298.8	
92673	16	6,435	248.6	92870	47	12,474	376.8	
92675	27	10,240	263.7	92886	37	13,582	272.4	
92676	6	823	729.0	92887	20	7,140	280.1	
92677	54	19,153	281.9	Other/Unknown	24			
Source of Population: Claritas 2005					Total	2,756	708,195	389.2

Orange County Ages 45 to 64 Years Deaths by ZIP Code of Residence (2005)

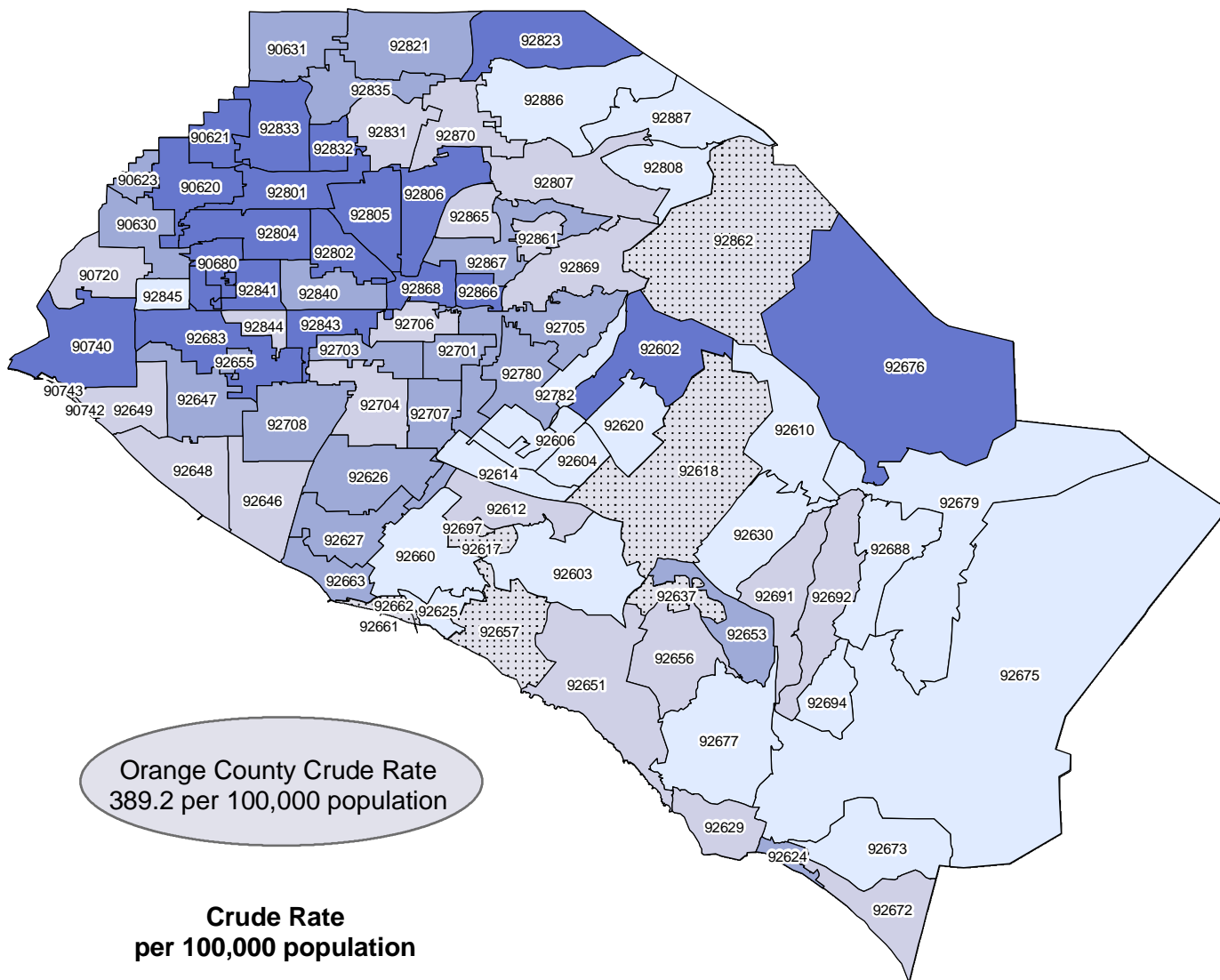


Table 5.19
Orange County
Deaths to 65+ Yrs, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population of 65+ Yrs	Crude Rate	ZIP Code	2005	2005 Population of 65+ Yrs	Rate per 100,000	
90620	226	5,382	4,199.2	92679	40	1,737	2,302.8	
90621	96	2,524	3,803.5	92683	421	10,685	3,940.1	
90623	80	1,973	4,054.7	92688	67	1,818	3,685.4	
90630	227	5,636	4,027.7	92691	254	5,298	4,794.3	
90631	314	7,840	4,005.1	92692	259	6,638	3,901.8	
90680	134	3,391	3,951.6	92694	17	249	6,831.5	
90720	137	3,971	3,450.0	92697	0	3	0.0	
90740	481	9,789	4,913.7	92701	88	2,445	3,599.2	
90742	4	114	3,508.8	92703	129	3,977	3,243.7	
90743	1	47	2,127.7	92704	177	5,663	3,125.6	
92602	20	242	8,264.5	92705	255	6,312	4,039.9	
92603	31	1,126	2,753.1	92706	166	2,846	5,832.7	
92604	95	3,282	2,894.6	92707	134	3,395	3,947.0	
92606	31	1,295	2,393.8	92708	322	7,134	4,513.6	
92610	12	464	2,586.2	92780	173	5,209	3,321.2	
92612	122	2,793	4,368.1	92782	30	1,145	2,620.1	
92614	42	1,653	2,540.8	92801	263	5,121	5,135.7	
92617	2	217	921.7	92802	177	3,690	4,796.7	
92618	27	453	5,960.3	92804	404	9,072	4,453.3	
92620	87	2,979	2,920.4	92805	168	4,050	4,148.1	
92624	53	1,124	4,715.3	92806	122	3,032	4,023.7	
92625	105	2,660	3,947.4	92807	168	3,955	4,247.8	
92626	172	5,203	3,305.8	92808	51	1,191	4,282.1	
92627	220	4,605	4,777.4	92821	172	4,403	3,906.4	
92629	151	3,928	3,844.2	92823	9	301	2,990.0	
92630	306	5,879	5,205.0	92831	145	3,556	4,077.6	
92637	13	14,216	91.4	92832	107	2,305	4,642.1	
92646	327	7,698	4,247.9	92833	192	5,335	3,598.9	
92647	207	5,552	3,728.4	92835	220	4,358	5,048.2	
92648	187	4,691	3,986.4	92840	205	5,470	3,747.7	
92649	157	4,625	3,394.6	92841	156	3,604	4,328.5	
92651	125	3,773	3,313.0	92843	132	3,662	3,604.6	
92653	849	4,715	18,006.4	92844	54	2,268	2,381.0	
92655	42	872	4,816.5	92845	105	2,358	4,452.9	
92656	67	1,918	3,493.2	92861	34	998	3,406.8	
92657	16	679	2,356.4	92862	0	0	0.0	
92660	194	6,158	3,150.4	92865	86	2,068	4,158.6	
92661	32	676	4,733.7	92866	82	1,631	5,027.6	
92662	23	687	3,347.9	92867	175	4,377	3,998.2	
92663	141	3,377	4,175.3	92868	89	2,360	3,771.2	
92672	165	5,600	2,946.4	92869	147	4,034	3,644.0	
92673	97	2,340	4,145.3	92870	202	5,100	3,960.8	
92675	207	4,932	4,197.1	92886	203	4,952	4,099.4	
92676	4	119	3,361.3	92887	47	1,364	3,445.7	
92677	241	6,338	3,802.5	Other/Unknown	35			
Source of Population: Claritas 2005					Total	12,752	316,705	4,026.5

Orange County Ages 65 and Over Deaths by ZIP Code of Residence (2005)

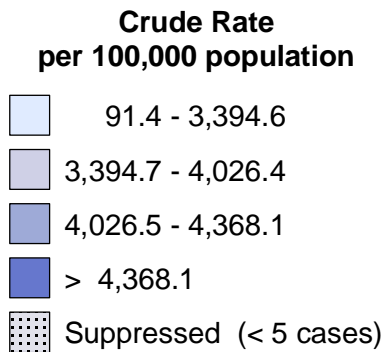
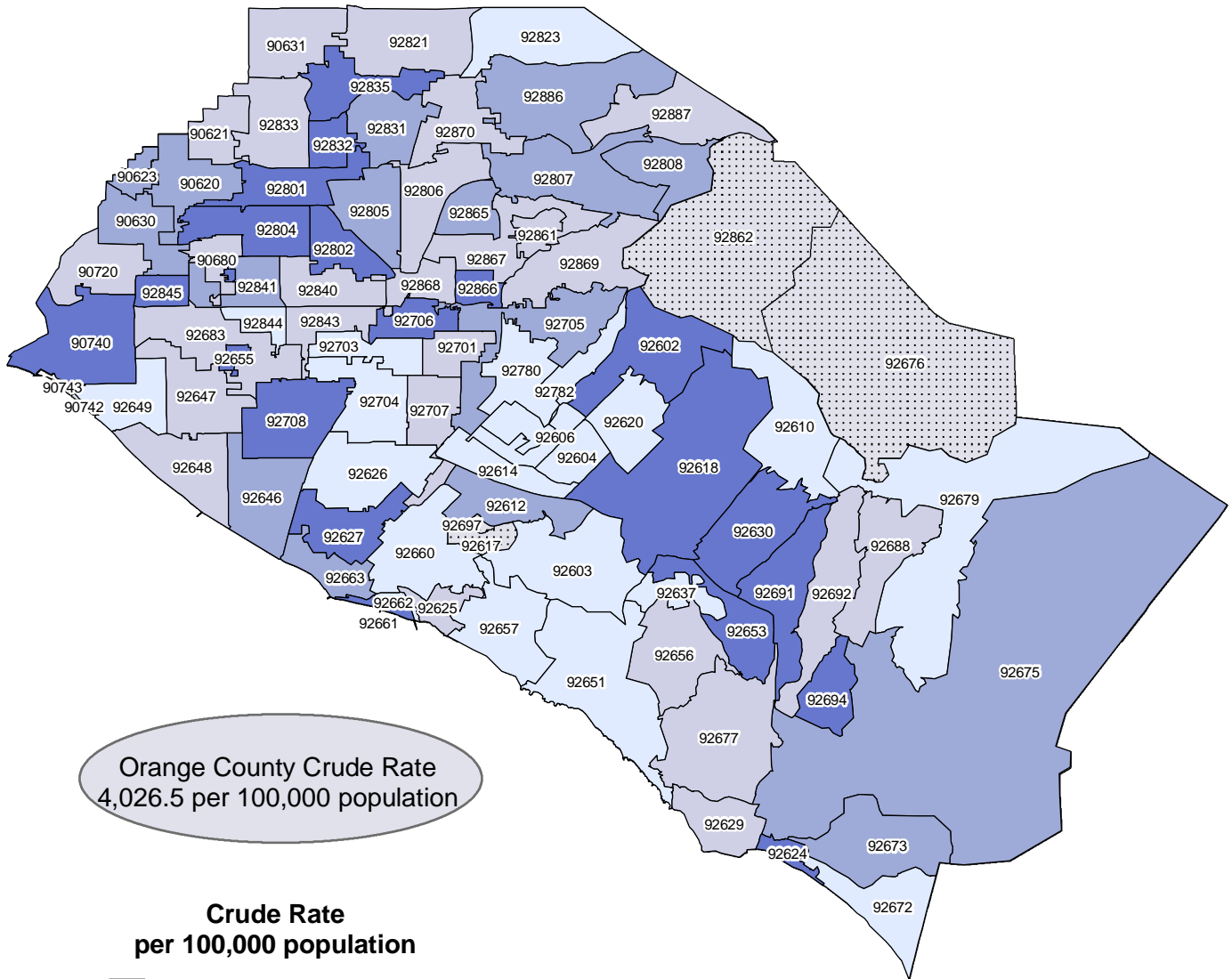
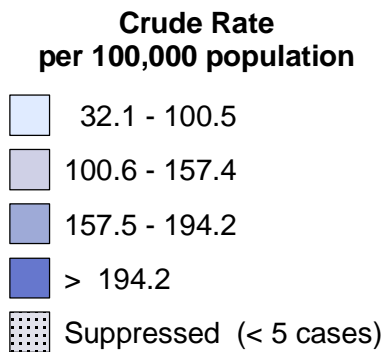
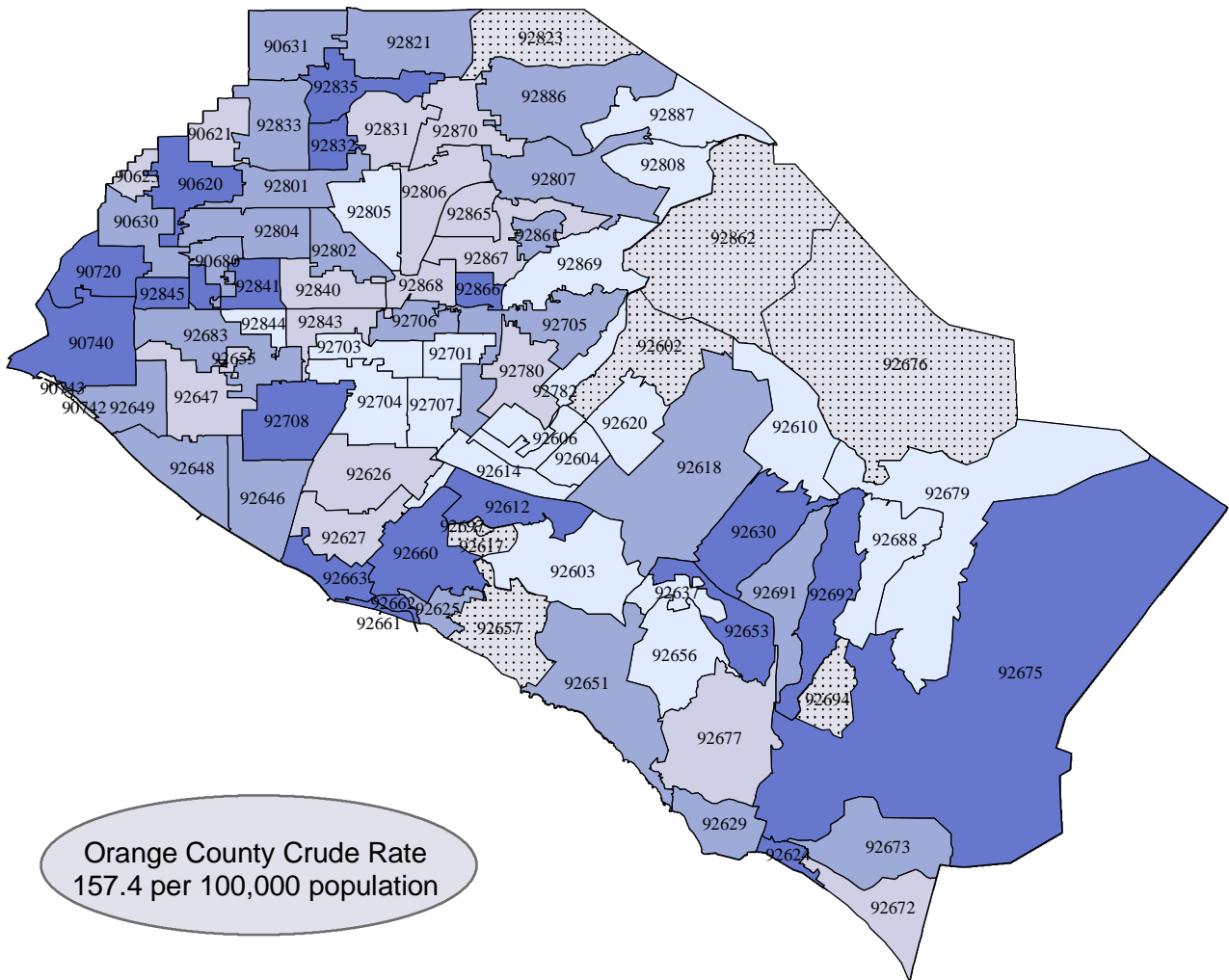


Table 5.20
Orange County
Heart Disease Deaths, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population	Rate per 100,000	ZIP Code	2005	2005 Population	Rate per 100,000
90620	91	44,784	203.2	92679	16	41,144	38.9
90621	44	35,542	123.8	92683	151	90,906	166.1
90623	25	16,010	156.2	92688	23	48,489	47.4
90630	90	47,768	188.4	92691	90	47,848	188.1
90631	134	69,005	194.2	92692	100	48,045	208.1
90680	59	32,188	183.3	92694	4	18,000	22.2
90720	51	23,451	217.5	92697	0	824	0.0
90740	162	24,461	662.3	92701	41	58,268	70.4
90742	1	887	112.7	92703	52	73,474	70.8
90743	0	451	0.0	92704	63	91,875	68.6
92602	3	6,242	48.1	92705	82	47,004	174.5
92603	9	10,798	83.3	92706	60	36,737	163.3
92604	29	30,220	96.0	92707	58	65,020	89.2
92606	12	22,701	52.9	92708	113	55,613	203.2
92610	6	15,617	38.4	92780	64	56,454	113.4
92612	49	24,115	203.2	92782	9	19,938	45.1
92614	14	25,582	54.7	92801	107	57,972	184.6
92617	0	13,054	0.0	92802	78	46,292	168.5
92618	14	8,758	159.9	92804	168	90,617	185.4
92620	27	41,705	64.7	92805	63	70,455	89.4
92624	19	7,753	245.1	92806	49	33,614	145.8
92625	24	12,552	191.2	92807	57	34,336	166.0
92626	53	47,669	111.2	92808	13	21,259	61.2
92627	91	64,586	140.9	92821	71	37,003	191.9
92629	50	28,129	177.8	92823	2	1,867	107.1
92630	122	59,550	204.9	92831	54	35,260	153.1
92637	5	15,568	32.1	92832	52	24,994	208.0
92646	102	56,447	180.7	92833	90	51,164	175.9
92647	79	60,592	130.4	92835	98	21,978	445.9
92648	80	46,400	172.4	92840	82	52,292	156.8
92649	64	34,184	187.2	92841	62	31,679	195.7
92651	46	25,180	182.7	92843	60	45,226	132.7
92653	316	31,899	990.6	92844	14	24,948	56.1
92655	12	9,049	132.6	92845	37	15,593	237.3
92656	28	45,422	61.6	92861	11	6,006	183.2
92657	2	8,006	25.0	92862	0	19	0.0
92660	69	33,292	207.3	92865	23	18,312	125.6
92661	11	3,951	278.4	92866	34	16,211	209.7
92662	8	2,897	276.1	92867	56	43,488	128.8
92663	63	22,191	283.9	92868	29	24,030	120.7
92672	50	39,328	127.1	92869	41	40,790	100.5
92673	35	22,057	158.7	92870	75	51,262	146.3
92675	83	38,072	218.0	92886	76	43,875	173.2
92676	1	2,089	47.9	92887	16	23,598	67.8
92677	90	65,626	137.1	Other/Unknown	17		
Total					4,784	3,039,607	157.4

Orange County Heart Disease Deaths by ZIP Code of Residence (2005)



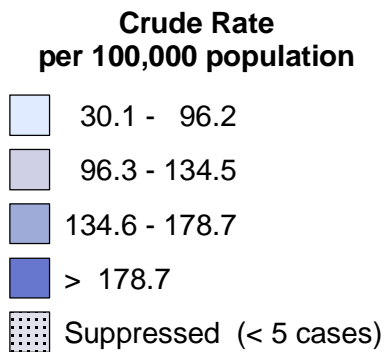
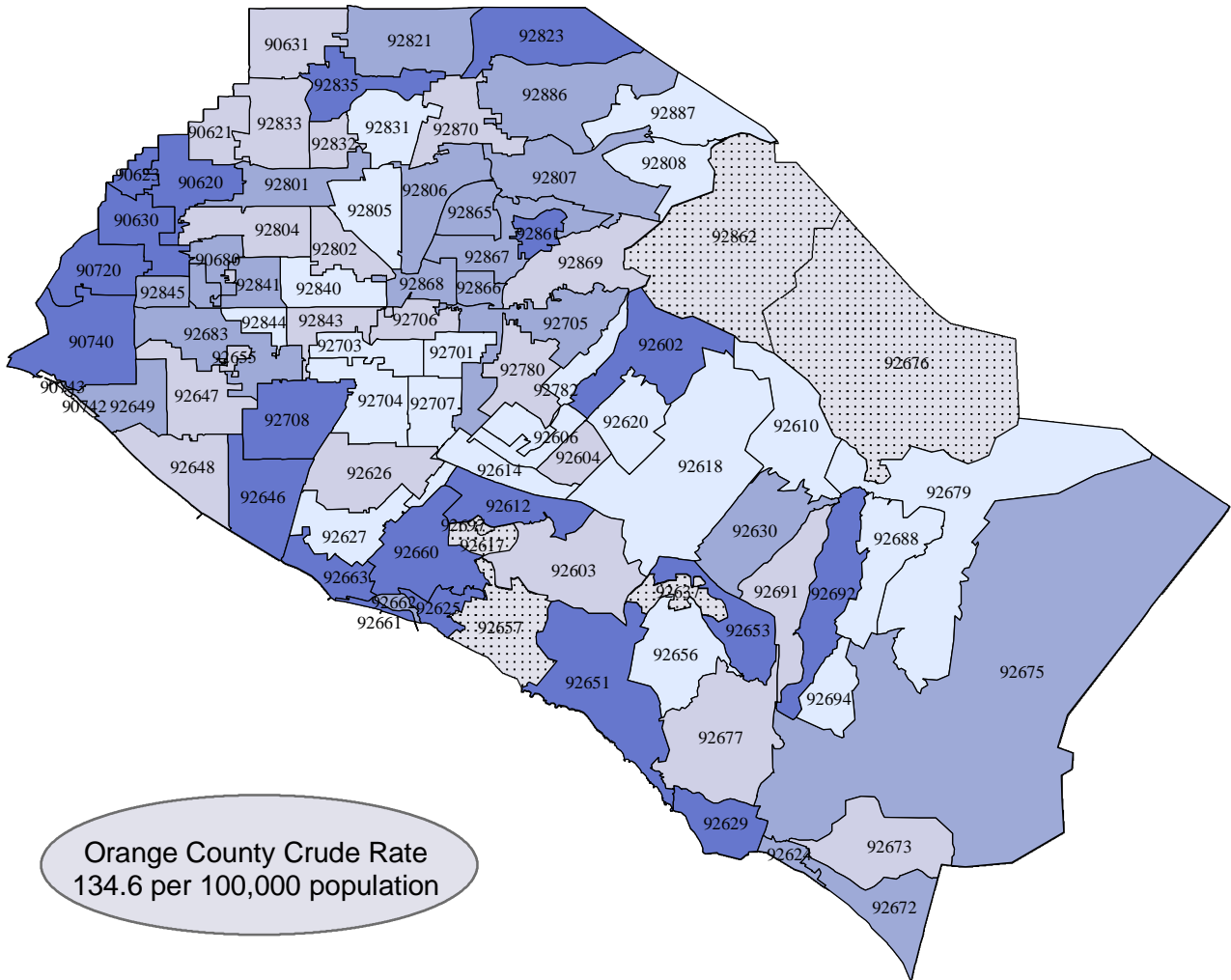
Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

Table 5.21
Orange County
All Cancer Deaths, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population	Rate per 100,000	ZIP Code	2005	2005 Population	Rate per 100,000
90620	82	44,784	183.1	92679	25	41,144	60.8
90621	41	35,542	115.4	92683	132	90,906	145.2
90623	34	16,010	212.4	92688	33	48,489	68.1
90630	90	47,768	188.4	92691	64	47,848	133.8
90631	88	69,005	127.5	92692	87	48,045	181.1
90680	45	32,188	139.8	92694	12	18,000	66.7
90720	49	23,451	208.9	92697	0	824	0.0
90740	119	24,461	486.5	92701	24	58,268	41.2
90742	2	887	225.5	92703	47	73,474	64.0
90743	1	451	221.7	92704	82	91,875	89.3
92602	13	6,242	208.3	92705	84	47,004	178.7
92603	14	10,798	129.7	92706	40	36,737	108.9
92604	33	30,220	109.2	92707	35	65,020	53.8
92606	15	22,701	66.1	92708	114	55,613	205.0
92610	9	15,617	57.6	92780	62	56,454	109.8
92612	45	24,115	186.6	92782	6	19,938	30.1
92614	18	25,582	70.4	92801	81	57,972	139.7
92617	1	13,054	7.7	92802	56	46,292	121.0
92618	5	8,758	57.1	92804	107	90,617	118.1
92620	35	41,705	83.9	92805	44	70,455	62.5
92624	12	7,753	154.8	92806	46	33,614	136.8
92625	38	12,552	302.7	92807	47	34,336	136.9
92626	61	47,669	128.0	92808	16	21,259	75.3
92627	55	64,586	85.2	92821	61	37,003	164.9
92629	56	28,129	199.1	92823	6	1,867	321.4
92630	81	59,550	136.0	92831	33	35,260	93.6
92637	4	15,568	25.7	92832	25	24,994	100.0
92646	128	56,447	226.8	92833	65	51,164	127.0
92647	80	60,592	132.0	92835	49	21,978	223.0
92648	58	46,400	125.0	92840	49	52,292	93.7
92649	59	34,184	172.6	92841	45	31,679	142.0
92651	53	25,180	210.5	92843	49	45,226	108.3
92653	192	31,899	601.9	92844	24	24,948	96.2
92655	10	9,049	110.5	92845	27	15,593	173.2
92656	30	45,422	66.0	92861	11	6,006	183.2
92657	3	8,006	37.5	92862	0	19	0.0
92660	76	33,292	228.3	92865	32	18,312	174.7
92661	11	3,951	278.4	92866	26	16,211	160.4
92662	5	2,897	172.6	92867	72	43,488	165.6
92663	40	22,191	180.3	92868	35	24,030	145.7
92672	65	39,328	165.3	92869	50	40,790	122.6
92673	27	22,057	122.4	92870	66	51,262	128.8
92675	55	38,072	144.5	92886	68	43,875	155.0
92676	3	2,089	143.6	92887	20	23,598	84.8
92677	83	65,626	126.5	Other/Unknown	11		
Total					4,092	3,039,607	134.6

Source of Population: Claritas 2005

Orange County All Cancer Deaths by ZIP Code of Residence (2005)

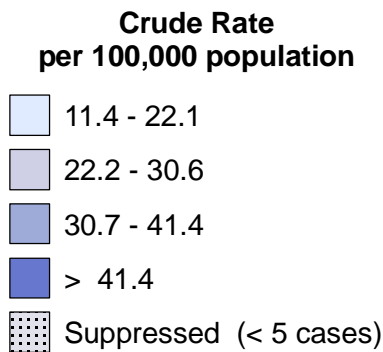
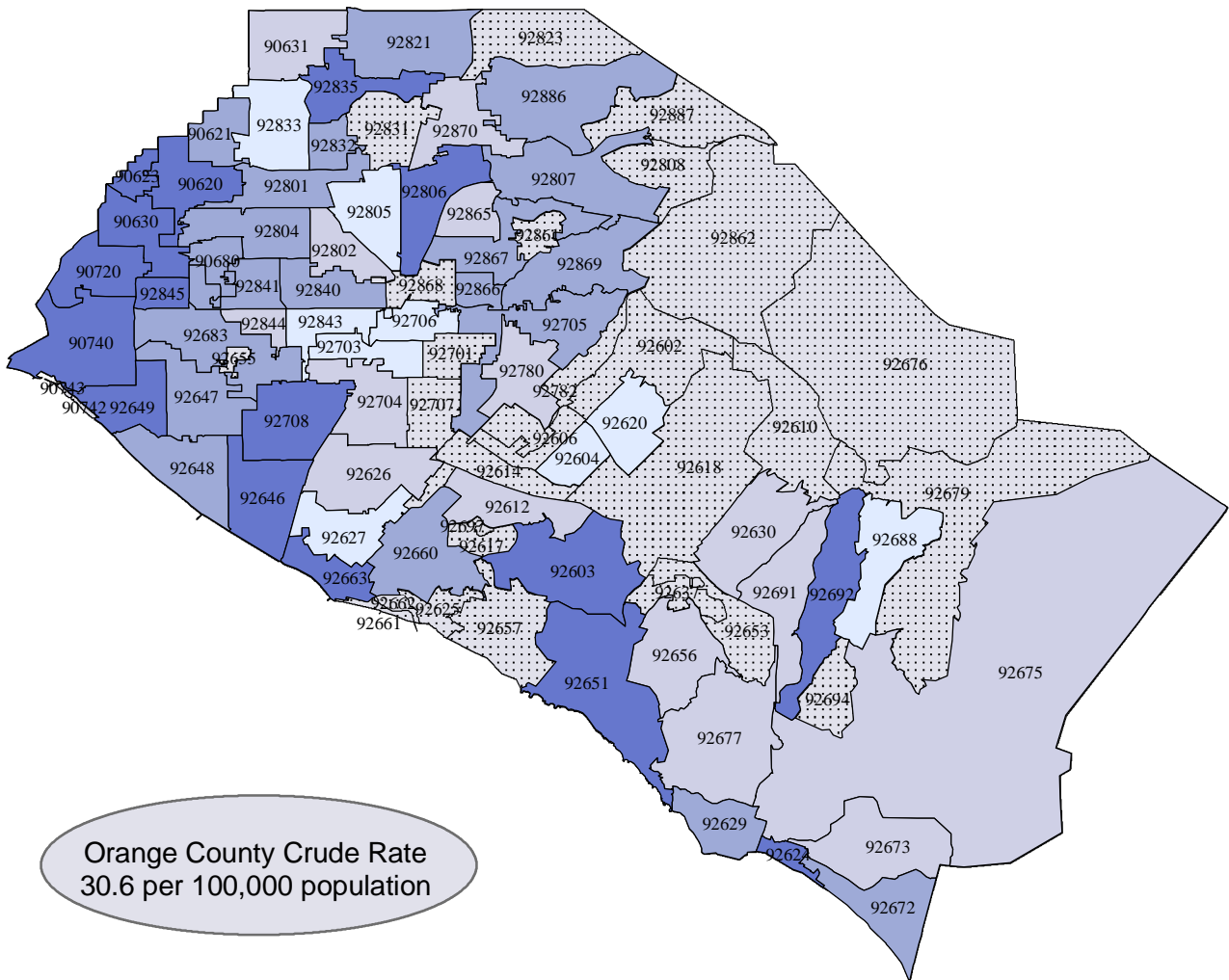


Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

Table 5.22
Orange County
Lung Cancer Deaths, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population	Rate per 100,000	ZIP Code	2005	2005 Population	Rate per 100,000
90620	24	44,784	53.6	92679	4	41,144	9.7
90621	11	35,542	30.9	92683	35	90,906	38.5
90623	9	16,010	56.2	92688	8	48,489	16.5
90630	27	47,768	56.5	92691	12	47,848	25.1
90631	19	69,005	27.5	92692	21	48,045	43.7
90680	11	32,188	34.2	92694	4	18,000	22.2
90720	12	23,451	51.2	92697	0	824	0.0
90740	25	24,461	102.2	92701	4	58,268	6.9
90742	2	887	225.5	92703	11	73,474	15.0
90743	0	451	0.0	92704	21	91,875	22.9
92602	1	6,242	16.0	92705	15	47,004	31.9
92603	5	10,798	46.3	92706	7	36,737	19.1
92604	6	30,220	19.9	92707	4	65,020	6.2
92606	3	22,701	13.2	92708	30	55,613	53.9
92610	3	15,617	19.2	92780	14	56,454	24.8
92612	7	24,115	29.0	92782	0	19,938	0.0
92614	3	25,582	11.7	92801	24	57,972	41.4
92617	0	13,054	0.0	92802	11	46,292	23.8
92618	1	8,758	11.4	92804	31	90,617	34.2
92620	9	41,705	21.6	92805	8	70,455	11.4
92624	5	7,753	64.5	92806	14	33,614	41.6
92625	4	12,552	31.9	92807	12	34,336	34.9
92626	14	47,669	29.4	92808	4	21,259	18.8
92627	11	64,586	17.0	92821	13	37,003	35.1
92629	11	28,129	39.1	92823	3	1,867	160.7
92630	14	59,550	23.5	92831	4	35,260	11.3
92637	0	15,568	0.0	92832	9	24,994	36.0
92646	29	56,447	51.4	92833	7	51,164	13.7
92647	20	60,592	33.0	92835	10	21,978	45.5
92648	18	46,400	38.8	92840	18	52,292	34.4
92649	15	34,184	43.9	92841	10	31,679	31.6
92651	12	25,180	47.7	92843	10	45,226	22.1
92653	39	31,899	122.3	92844	7	24,948	28.1
92655	3	9,049	33.2	92845	7	15,593	44.9
92656	12	45,422	26.4	92861	1	6,006	16.7
92657	1	8,006	12.5	92862	0	19	0.0
92660	13	33,292	39.0	92865	5	18,312	27.3
92661	1	3,951	25.3	92866	6	16,211	37.0
92662	0	2,897	0.0	92867	17	43,488	39.1
92663	11	22,191	49.6	92868	4	24,030	16.6
92672	15	39,328	38.1	92869	14	40,790	34.3
92673	6	22,057	27.2	92870	14	51,262	27.3
92675	11	38,072	28.9	92886	15	43,875	34.2
92676	0	2,089	0.0	92887	4	23,598	17.0
92677	16	65,626	24.4	Other/Unknown	0		
Total					931	3,039,607	30.6

Orange County Lung Cancer Deaths by ZIP Code of Residence (2005)

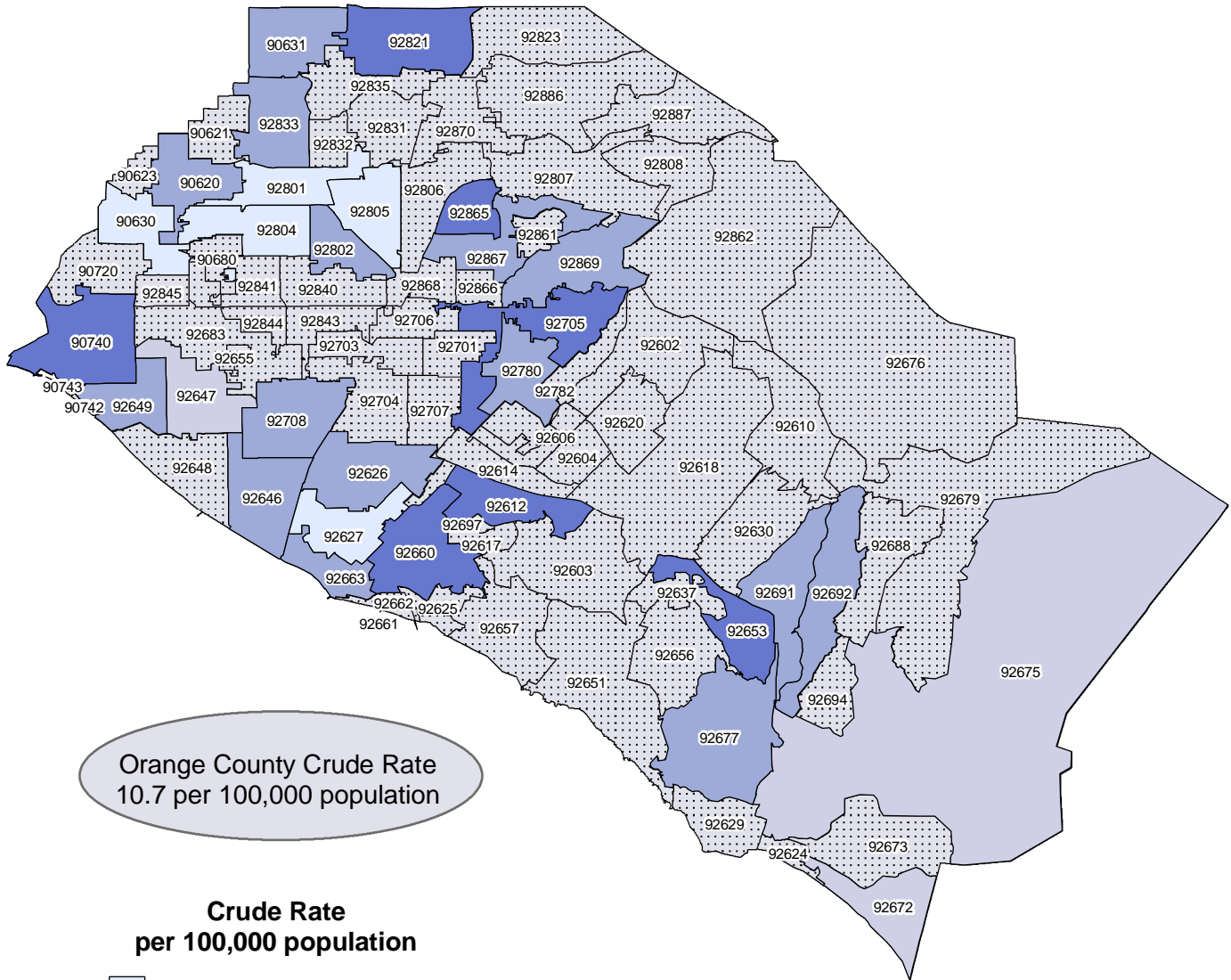


Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

Table 5.23
Orange County
Colon Cancer Deaths, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population	Rate per 100,000	ZIP Code	2005	2005 Population	Rate per 100,000	
90620	7	44,784	15.6	92679	3	41,144	7.3	
90621	3	35,542	8.4	92683	4	90,906	4.4	
90623	0	16,010	0.0	92688	3	48,489	6.2	
90630	5	47,768	10.5	92691	8	47,848	16.7	
90631	10	69,005	14.5	92692	7	48,045	14.6	
90680	3	32,188	9.3	92694	2	18,000	11.1	
90720	3	23,451	12.8	92697	0	824	0.0	
90740	13	24,461	53.1	92701	1	58,268	1.7	
90742	0	887	0.0	92703	4	73,474	5.4	
90743	0	451	0.0	92704	2	91,875	2.2	
92602	2	6,242	32.0	92705	11	47,004	23.4	
92603	1	10,798	9.3	92706	4	36,737	10.9	
92604	2	30,220	6.6	92707	3	65,020	4.6	
92606	1	22,701	4.4	92708	8	55,613	14.4	
92610	0	15,617	0.0	92780	10	56,454	17.7	
92612	6	24,115	24.9	92782	0	19,938	0.0	
92614	1	25,582	3.9	92801	5	57,972	8.6	
92617	0	13,054	0.0	92802	8	46,292	17.3	
92618	1	8,758	11.4	92804	5	90,617	5.5	
92620	2	41,705	4.8	92805	5	70,455	7.1	
92624	0	7,753	0.0	92806	3	33,614	8.9	
92625	2	12,552	15.9	92807	1	34,336	2.9	
92626	7	47,669	14.7	92808	1	21,259	4.7	
92627	5	64,586	7.7	92821	9	37,003	24.3	
92629	2	28,129	7.1	92823	0	1,867	0.0	
92630	4	59,550	6.7	92831	2	35,260	5.7	
92637	0	15,568	0.0	92832	3	24,994	12.0	
92646	10	56,447	17.7	92833	10	51,164	19.5	
92647	8	60,592	13.2	92835	4	21,978	18.2	
92648	1	46,400	2.2	92840	3	52,292	5.7	
92649	5	34,184	14.6	92841	2	31,679	6.3	
92651	4	25,180	15.9	92843	1	45,226	2.2	
92653	14	31,899	43.9	92844	1	24,948	4.0	
92655	0	9,049	0.0	92845	1	15,593	6.4	
92656	1	45,422	2.2	92861	0	6,006	0.0	
92657	0	8,006	0.0	92862	0	19	0.0	
92660	11	33,292	33.0	92865	5	18,312	27.3	
92661	2	3,951	50.6	92866	3	16,211	18.5	
92662	1	2,897	34.5	92867	7	43,488	16.1	
92663	5	22,191	22.5	92868	1	24,030	4.2	
92672	5	39,328	12.7	92869	6	40,790	14.7	
92673	2	22,057	9.1	92870	2	51,262	3.9	
92675	5	38,072	13.1	92886	4	43,875	9.1	
92676	0	2,089	0.0	92887	0	23,598	0.0	
92677	9	65,626	13.7	Other/Unknown				
Source of Population: Claritas 2005					Total	325	3,039,607	10.7

Orange County Colon Cancer Deaths by ZIP Code of Residence (2005)

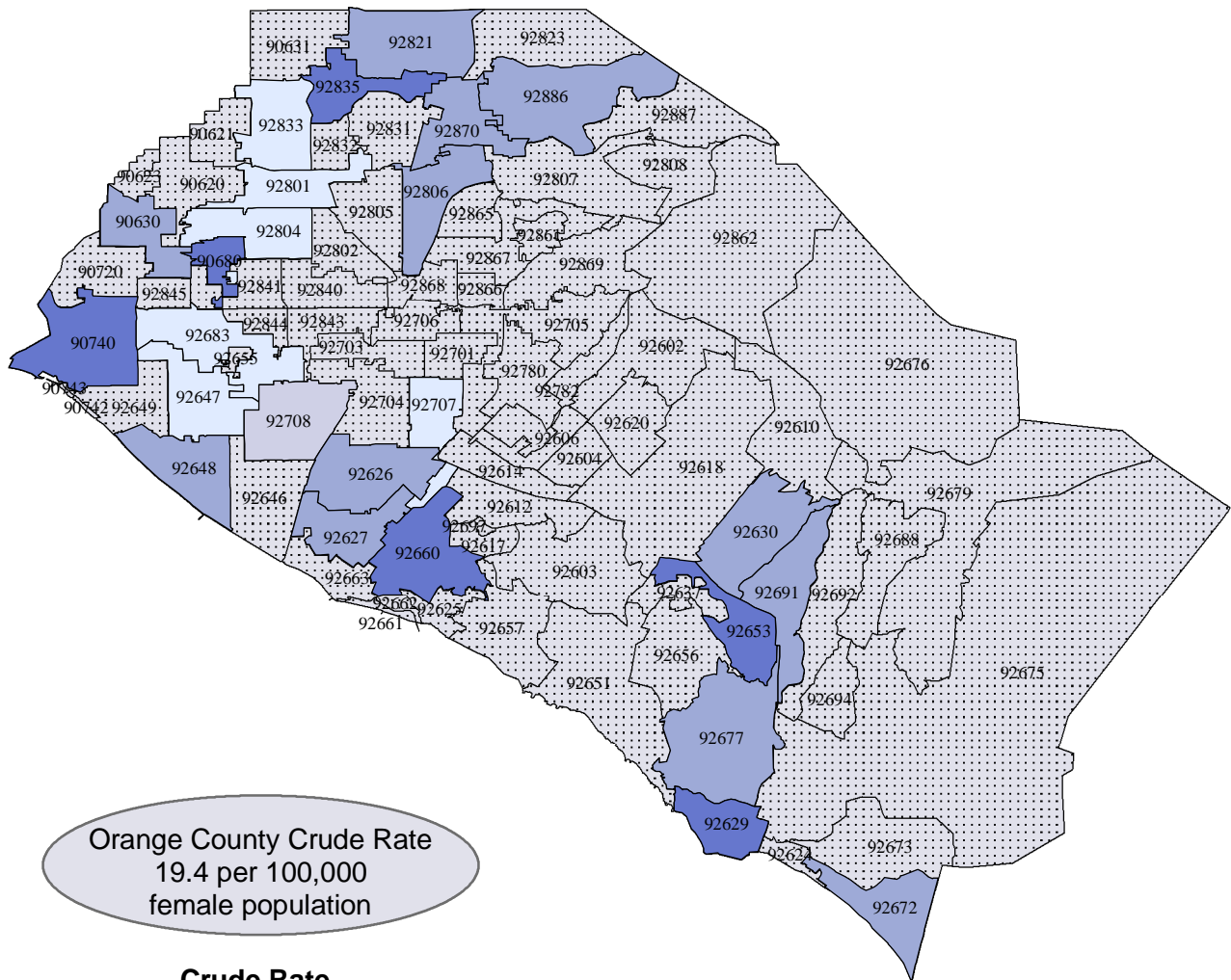


Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

Table 5.24
Orange County
Breast Cancer Deaths, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population	Rate per 100,000	ZIP Code	2005	2005 Population	Rate per 100,000
90620	1	22,643	4.4	92679	4	20,577	19.4
90621	4	17,743	22.5	92683	8	45,338	17.6
90623	3	8,180	36.7	92688	3	24,645	12.2
90630	6	24,480	24.5	92691	6	24,327	24.7
90631	4	34,842	11.5	92692	4	24,656	16.2
90680	6	15,918	37.7	92694	0	8,820	0.0
90720	3	12,160	24.7	92697	0	421	0.0
90740	13	13,691	95.0	92701	4	27,717	14.4
90742	0	403	0.0	92703	2	34,473	5.8
90743	0	209	0.0	92704	2	44,726	4.5
92602	2	3,151	63.5	92705	4	23,758	16.8
92603	0	5,593	0.0	92706	3	18,046	16.6
92604	2	15,655	12.8	92707	5	31,293	16.0
92606	1	11,556	8.7	92708	6	28,352	21.2
92610	0	7,816	0.0	92780	3	28,711	10.4
92612	2	12,459	16.1	92782	0	10,118	0.0
92614	4	13,199	30.3	92801	5	29,146	17.2
92617	0	6,750	0.0	92802	3	22,881	13.1
92618	1	3,998	25.0	92804	7	45,582	15.4
92620	3	21,377	14.0	92805	4	34,063	11.7
92624	1	3,810	26.2	92806	5	16,646	30.0
92625	1	6,565	15.2	92807	2	17,549	11.4
92626	8	23,687	33.8	92808	2	10,723	18.7
92627	7	31,065	22.5	92821	6	18,902	31.7
92629	5	14,116	35.4	92823	1	966	103.5
92630	7	30,207	23.2	92831	3	17,517	17.1
92637	1	10,217	9.8	92832	3	12,393	24.2
92646	4	28,480	14.0	92833	5	25,819	19.4
92647	5	29,885	16.7	92835	7	11,503	60.9
92648	7	23,021	30.4	92840	2	26,288	7.6
92649	2	17,012	11.8	92841	1	15,852	6.3
92651	3	12,363	24.3	92843	4	22,277	18.0
92653	8	16,496	48.5	92844	2	12,255	16.3
92655	0	4,472	0.0	92845	0	7,981	0.0
92656	3	23,369	12.8	92861	0	2,987	0.0
92657	1	4,092	24.4	92862	0	9	0.0
92660	6	17,067	35.2	92865	3	9,252	32.4
92661	1	1,863	53.7	92866	1	8,291	12.1
92662	1	1,613	62.0	92867	4	21,701	18.4
92663	3	10,615	28.3	92868	3	11,167	26.9
92672	5	19,253	26.0	92869	2	20,490	9.8
92673	3	10,970	27.3	92870	6	25,821	23.2
92675	3	19,274	15.6	92886	7	22,410	31.2
92676	0	1,014	0.0	92887	1	11,966	8.4
92677	8	33,678	23.8	Other/Unknown	4		
Total					295	1,524,442	19.4

Orange County Female Breast Cancer Deaths by ZIP Code of Residence (2005)



**Crude Rate
per 100,000
female population**

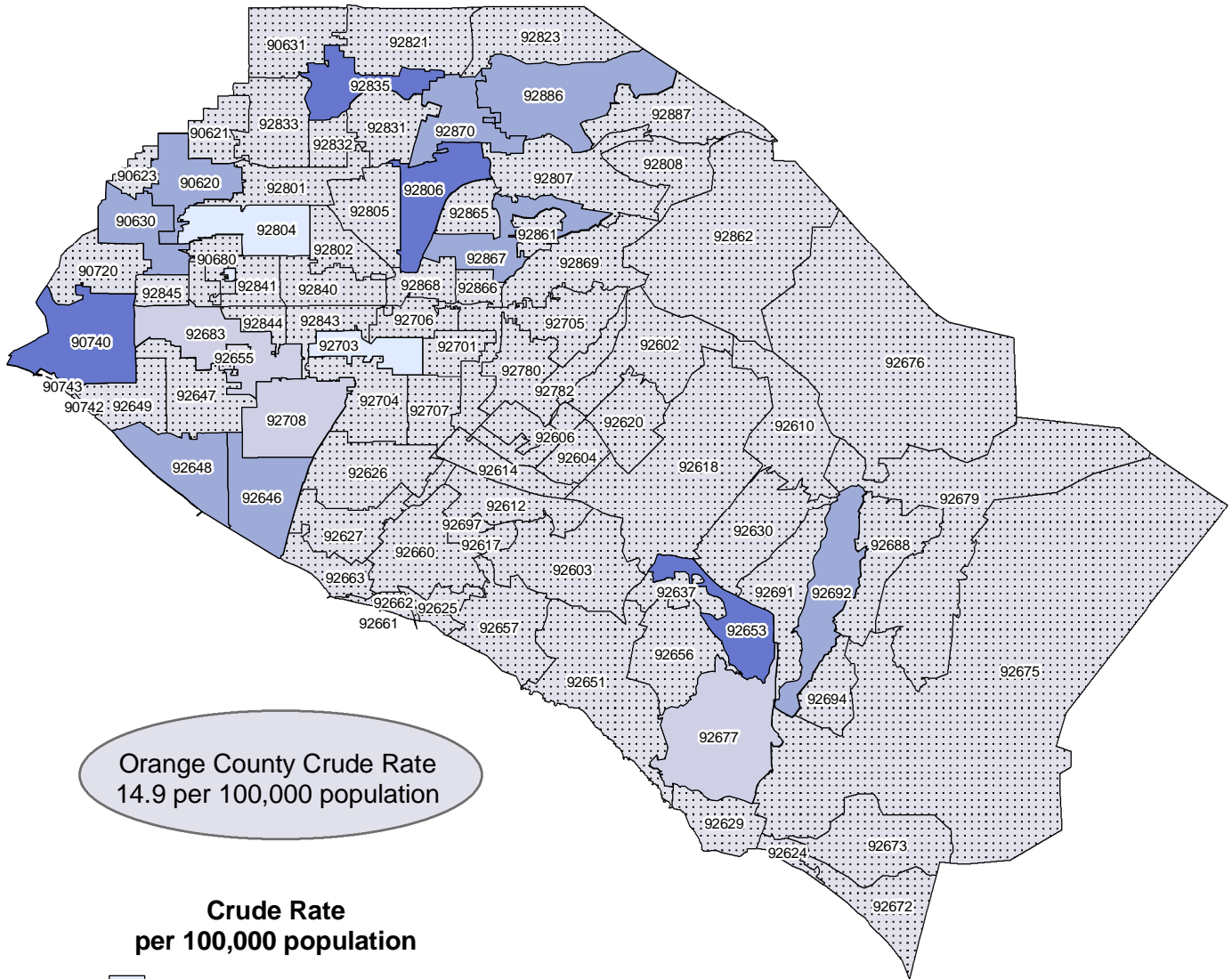
- 15.4 - 19.4
- 19.5 - 21.2
- 21.3 - 33.8
- > 33.8
- Suppressed (< 5 cases)

Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

**Table 5.25
Orange County
Prostate Cancer Deaths, 2005
Rate by ZIP Code of Residence**

ZIP Code	2005	2005 Male Population	Rate per 100,000	ZIP Code	2005	2005 Male Population	Rate per 100,000	
90620	6	22,141	27.1	92679	0	20,567	0.0	
90621	1	17,799	5.6	92683	7	45,568	15.4	
90623	2	7,830	25.5	92688	1	23,844	4.2	
90630	7	23,288	30.1	92691	3	23,521	12.8	
90631	4	34,163	11.7	92692	5	23,389	21.4	
90680	3	16,270	18.4	92694	1	9,180	10.9	
90720	1	11,291	8.9	92697	0	403	0.0	
90740	11	10,770	102.1	92701	0	30,551	0.0	
90742	0	484	0.0	92703	5	39,001	12.8	
90743	0	242	0.0	92704	4	47,149	8.5	
92602	1	3,091	32.4	92705	3	23,246	12.9	
92603	0	5,205	0.0	92706	3	18,691	16.1	
92604	1	14,565	6.9	92707	1	33,727	3.0	
92606	0	11,145	0.0	92708	5	27,261	18.3	
92610	0	7,801	0.0	92780	3	27,743	10.8	
92612	3	11,656	25.7	92782	0	9,820	0.0	
92614	0	12,383	0.0	92801	4	28,826	13.9	
92617	1	6,304	15.9	92802	4	23,411	17.1	
92618	0	4,760	0.0	92804	5	45,035	11.1	
92620	2	20,328	9.8	92805	2	36,392	5.5	
92624	0	3,943	0.0	92806	6	16,968	35.4	
92625	2	5,987	33.4	92807	2	16,787	11.9	
92626	4	23,982	16.7	92808	3	10,536	28.5	
92627	1	33,521	3.0	92821	4	18,101	22.1	
92629	3	14,013	21.4	92823	0	901	0.0	
92630	4	29,343	13.6	92831	0	17,743	0.0	
92637	2	5,351	37.4	92832	0	12,601	0.0	
92646	9	27,967	32.2	92833	1	25,345	3.9	
92647	2	30,707	6.5	92835	5	10,475	47.7	
92648	5	23,379	21.4	92840	1	26,004	3.8	
92649	3	17,172	17.5	92841	3	15,827	19.0	
92651	1	12,817	7.8	92843	1	22,949	4.4	
92653	10	15,403	64.9	92844	2	12,693	15.8	
92655	1	4,577	21.8	92845	3	7,612	39.4	
92656	0	22,053	0.0	92861	0	3,019	0.0	
92657	0	3,914	0.0	92862	0	10	0.0	
92660	3	16,225	18.5	92865	2	9,060	22.1	
92661	0	2,088	0.0	92866	1	7,920	12.6	
92662	1	1,284	77.9	92867	7	21,787	32.1	
92663	2	11,576	17.3	92868	1	12,863	7.8	
92672	4	20,075	19.9	92869	3	20,300	14.8	
92673	1	11,087	9.0	92870	7	25,441	27.5	
92675	3	18,798	16.0	92886	7	21,465	32.6	
92676	0	1,075	0.0	92887	1	11,632	8.6	
92677	5	31,948	15.7	Other/Unknown	1			
<i>Source of Population: Claritas 2005</i>					Total	226	1,515,165	14.9

Orange County Prostate Cancer Deaths by ZIP Code of Residence (2005)



Orange County Crude Rate
14.9 per 100,000 population

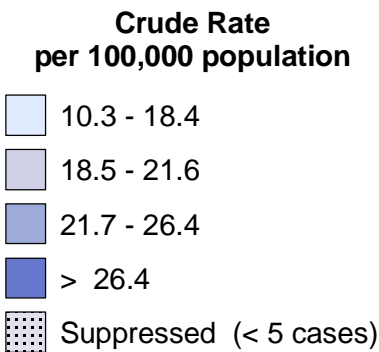
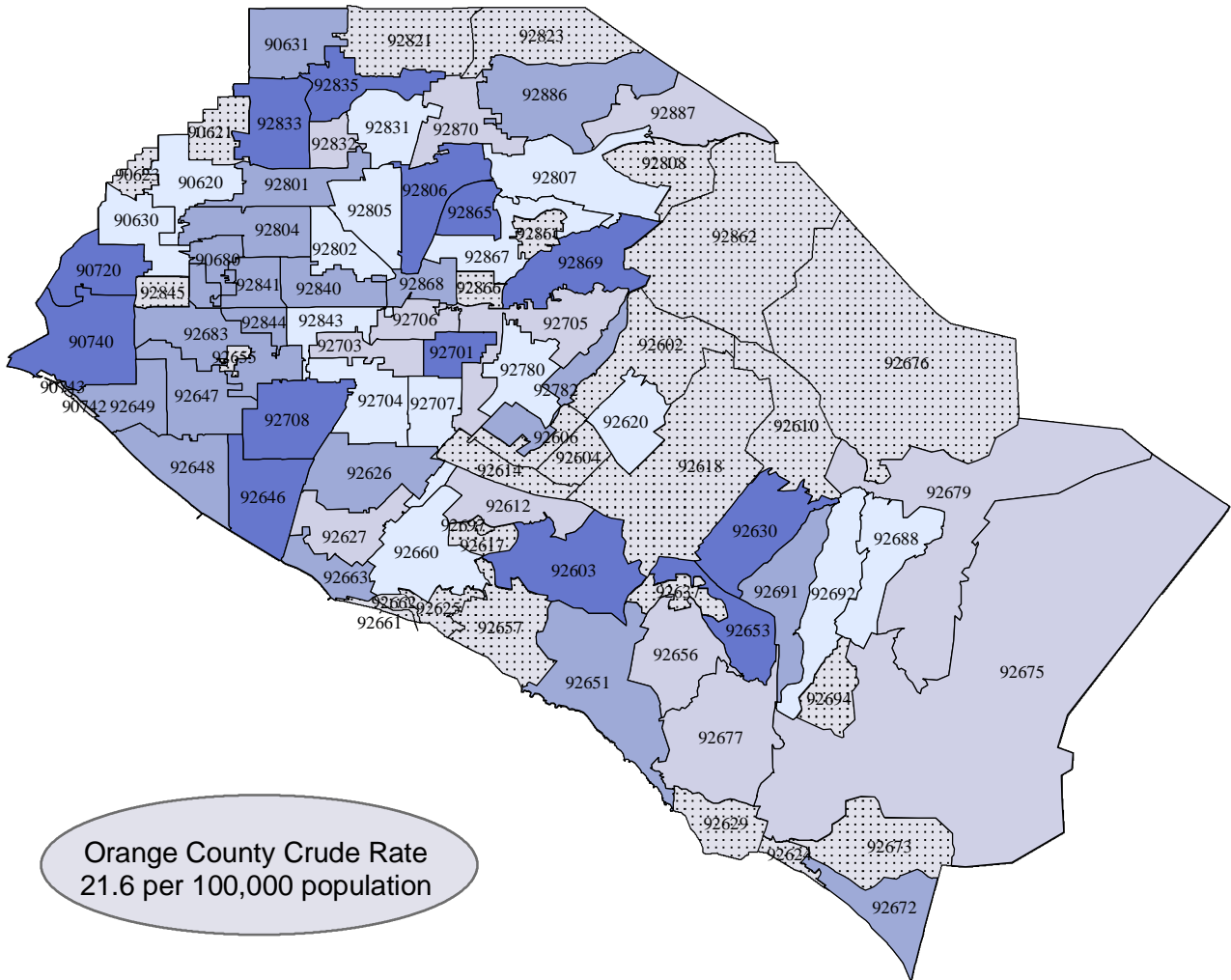
- Crude Rate
per 100,000 population**
- 11.1 - 14.9
 - 15.0 - 18.3
 - 18.4 - 32.6
 - > 32.6
 - Suppressed (< 5 cases)

Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

Table 5.26
Orange County
Unintentional Injury Deaths - All Ages, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population	Rate per 100,000	ZIP Code	2005	2005 Population	Rate per 100,000	
90620	6	44,784	13.4	92679	8	41,144	19.4	
90621	4	35,542	11.3	92683	24	90,906	26.4	
90623	1	16,010	6.2	92688	5	48,489	10.3	
90630	8	47,768	16.7	92691	11	47,848	23.0	
90631	18	69,005	26.1	92692	5	48,045	10.4	
90680	8	32,188	24.9	92694	3	18,000	16.7	
90720	8	23,451	34.1	92697	0	824	0.0	
90740	11	24,461	45.0	92701	16	58,268	27.5	
90742	0	887	0.0	92703	15	73,474	20.4	
90743	0	451	0.0	92704	14	91,875	15.2	
92602	0	6,242	0.0	92705	9	47,004	19.1	
92603	5	10,798	46.3	92706	7	36,737	19.1	
92604	4	30,220	13.2	92707	7	65,020	10.8	
92606	1	22,701	4.4	92708	16	55,613	28.8	
92610	2	15,617	12.8	92780	8	56,454	14.2	
92612	5	24,115	20.7	92782	5	19,938	25.1	
92614	3	25,582	11.7	92801	13	57,972	22.4	
92617	1	13,054	7.7	92802	8	46,292	17.3	
92618	1	8,758	11.4	92804	21	90,617	23.2	
92620	5	41,705	12.0	92805	11	70,455	15.6	
92624	1	7,753	12.9	92806	11	33,614	32.7	
92625	3	12,552	23.9	92807	6	34,336	17.5	
92626	11	47,669	23.1	92808	2	21,259	9.4	
92627	12	64,586	18.6	92821	3	37,003	8.1	
92629	4	28,129	14.2	92823	0	1,867	0.0	
92630	22	59,550	36.9	92831	6	35,260	17.0	
92637	0	15,568	0.0	92832	5	24,994	20.0	
92646	16	56,447	28.3	92833	19	51,164	37.1	
92647	16	60,592	26.4	92835	7	21,978	31.9	
92648	12	46,400	25.9	92840	13	52,292	24.9	
92649	9	34,184	26.3	92841	7	31,679	22.1	
92651	6	25,180	23.8	92843	8	45,226	17.7	
92653	14	31,899	43.9	92844	6	24,948	24.1	
92655	3	9,049	33.2	92845	4	15,593	25.7	
92656	9	45,422	19.8	92861	0	6,006	0.0	
92657	3	8,006	37.5	92862	0	19	0.0	
92660	6	33,292	18.0	92865	10	18,312	54.6	
92661	0	3,951	0.0	92866	2	16,211	12.3	
92662	0	2,897	0.0	92867	8	43,488	18.4	
92663	5	22,191	22.5	92868	6	24,030	25.0	
92672	9	39,328	22.9	92869	16	40,790	39.2	
92673	1	22,057	4.5	92870	10	51,262	19.5	
92675	8	38,072	21.0	92886	10	43,875	22.8	
92676	1	2,089	47.9	92887	5	23,598	21.2	
92677	13	65,626	19.8	Other/Unknown	11			
Source of Population: Claritas 2005					Total	656	3,039,607	21.6

Orange County Unintentional Injury Deaths by ZIP Code of Residence (2005)



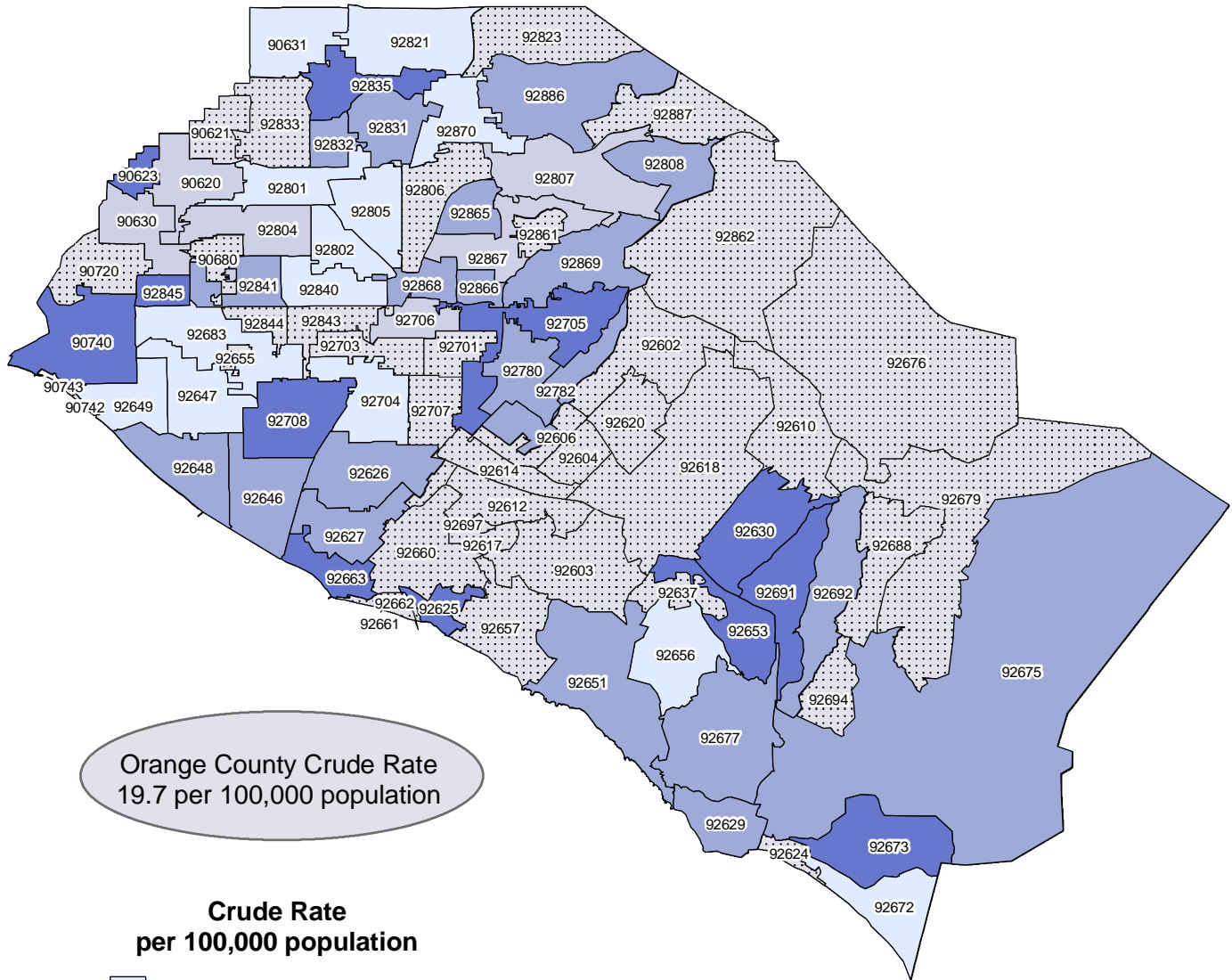
Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

Table 5.27
Orange County
Alzheimer's Disease Deaths, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population	Rate per 100,000	ZIP Code	2005	2005 Population	Rate per 100,000
90620	8	44,784	17.9	92679	2	41,144	4.9
90621	1	35,542	2.8	92683	12	90,906	13.2
90623	8	16,010	50.0	92688	4	48,489	8.2
90630	9	47,768	18.8	92691	22	47,848	46.0
90631	5	69,005	7.2	92692	13	48,045	27.1
90680	2	32,188	6.2	92694	0	18,000	0.0
90720	3	23,451	12.8	92697	0	824	0.0
90740	18	24,461	73.6	92701	1	58,268	1.7
90742	0	887	0.0	92703	4	73,474	5.4
90743	0	451	0.0	92704	5	91,875	5.4
92602	1	6,242	16.0	92705	22	47,004	46.8
92603	3	10,798	27.8	92706	6	36,737	16.3
92604	4	30,220	13.2	92707	3	65,020	4.6
92606	0	22,701	0.0	92708	20	55,613	36.0
92610	0	15,617	0.0	92780	14	56,454	24.8
92612	3	24,115	12.4	92782	5	19,938	25.1
92614	3	25,582	11.7	92801	7	57,972	12.1
92617	1	13,054	7.7	92802	7	46,292	15.1
92618	3	8,758	34.3	92804	17	90,617	18.8
92620	4	41,705	9.6	92805	7	70,455	9.9
92624	4	7,753	51.6	92806	2	33,614	5.9
92625	5	12,552	39.8	92807	6	34,336	17.5
92626	14	47,669	29.4	92808	5	21,259	23.5
92627	18	64,586	27.9	92821	5	37,003	13.5
92629	8	28,129	28.4	92823	1	1,867	53.6
92630	20	59,550	33.6	92831	8	35,260	22.7
92637	0	15,568	0.0	92832	6	24,994	24.0
92646	16	56,447	28.3	92833	3	51,164	5.9
92647	8	60,592	13.2	92835	8	21,978	36.4
92648	15	46,400	32.3	92840	7	52,292	13.4
92649	5	34,184	14.6	92841	8	31,679	25.3
92651	5	25,180	19.9	92843	4	45,226	8.8
92653	43	31,899	134.8	92844	2	24,948	8.0
92655	2	9,049	22.1	92845	7	15,593	44.9
92656	5	45,422	11.0	92861	2	6,006	33.3
92657	2	8,006	25.0	92862	0	19	0.0
92660	4	33,292	12.0	92865	6	18,312	32.8
92661	0	3,951	0.0	92866	5	16,211	30.8
92662	2	2,897	69.0	92867	7	43,488	16.1
92663	9	22,191	40.6	92868	6	24,030	25.0
92672	6	39,328	15.3	92869	10	40,790	24.5
92673	12	22,057	54.4	92870	6	51,262	11.7
92675	10	38,072	26.3	92886	10	43,875	22.8
92676	0	2,089	0.0	92887	0	23,598	0.0
92677	13	65,626	19.8	Other/Unknown	2		
				Total	599	3,039,607	19.7

Source of Population: Claritas 2005

Orange County Alzheimer's Disease Deaths by ZIP Code of Residence (2005)



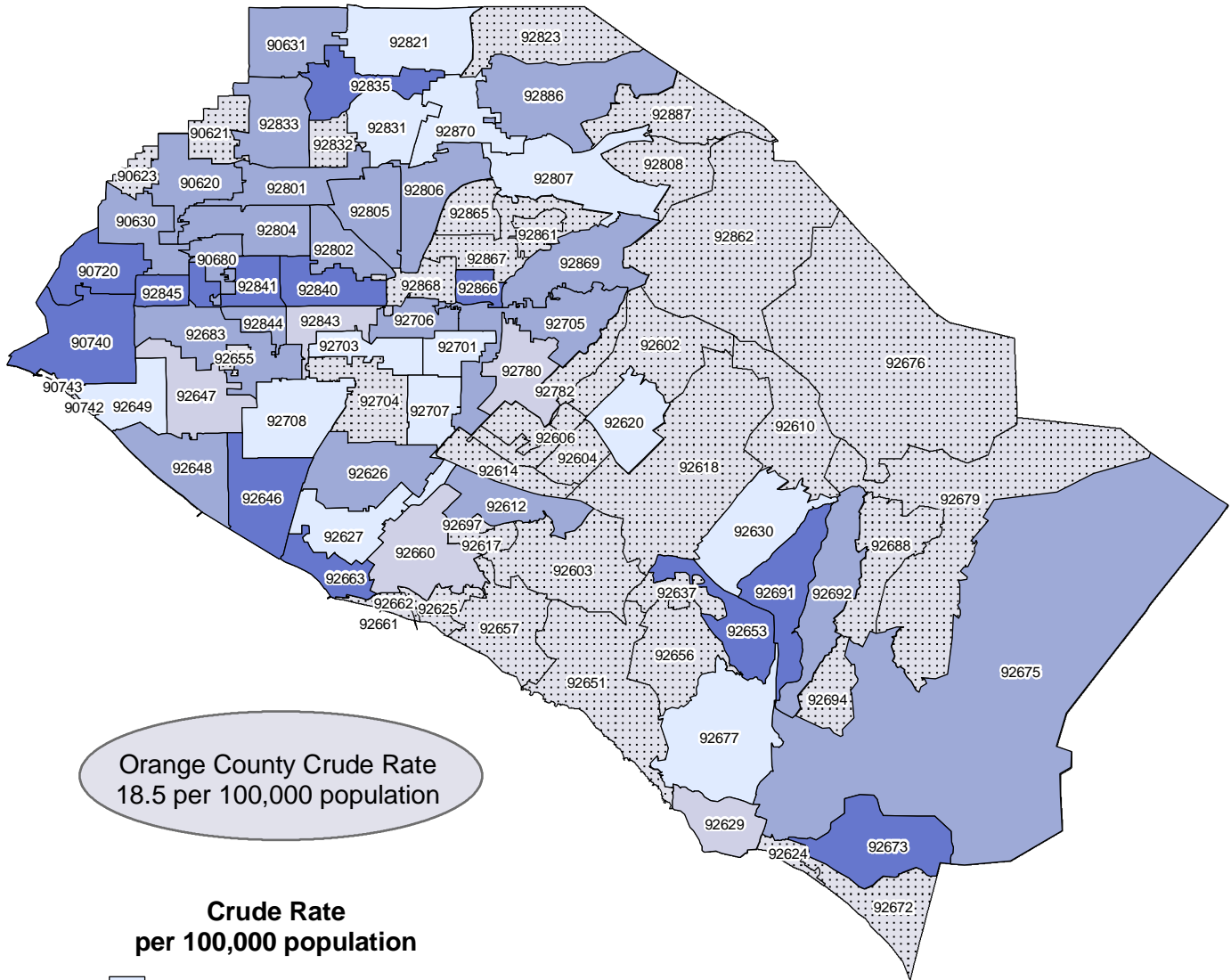
Quality Management, Orange County Health Care Agency, 2008

Data Source: State of California 2005 Death Master File

Table 5.28
Orange County
Influenza & Pneumonia Deaths, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population	Rate per 100,000	ZIP Code	2005	2005 Population	Rate per 100,000
90620	10	44,784	22.3	92679	2	41,144	4.9
90621	2	35,542	5.6	92683	19	90,906	20.9
90623	3	16,010	18.7	92688	2	48,489	4.1
90630	9	47,768	18.8	92691	14	47,848	29.3
90631	17	69,005	24.6	92692	12	48,045	25.0
90680	8	32,188	24.9	92694	0	18,000	0.0
90720	7	23,451	29.8	92697	0	824	0.0
90740	14	24,461	57.2	92701	6	58,268	10.3
90742	0	887	0.0	92703	5	73,474	6.8
90743	0	451	0.0	92704	3	91,875	3.3
92602	1	6,242	16.0	92705	10	47,004	21.3
92603	1	10,798	9.3	92706	7	36,737	19.1
92604	3	30,220	9.9	92707	10	65,020	15.4
92606	2	22,701	8.8	92708	9	55,613	16.2
92610	0	15,617	0.0	92780	10	56,454	17.7
92612	5	24,115	20.7	92782	0	19,938	0.0
92614	0	25,582	0.0	92801	15	57,972	25.9
92617	0	13,054	0.0	92802	9	46,292	19.4
92618	1	8,758	11.4	92804	24	90,617	26.5
92620	5	41,705	12.0	92805	14	70,455	19.9
92624	1	7,753	12.9	92806	8	33,614	23.8
92625	1	12,552	8.0	92807	5	34,336	14.6
92626	9	47,669	18.9	92808	2	21,259	9.4
92627	7	64,586	10.8	92821	6	37,003	16.2
92629	5	28,129	17.8	92823	0	1,867	0.0
92630	9	59,550	15.1	92831	6	35,260	17.0
92637	0	15,568	0.0	92832	3	24,994	12.0
92646	19	56,447	33.7	92833	13	51,164	25.4
92647	11	60,592	18.2	92835	9	21,978	41.0
92648	9	46,400	19.4	92840	15	52,292	28.7
92649	5	34,184	14.6	92841	16	31,679	50.5
92651	2	25,180	7.9	92843	8	45,226	17.7
92653	37	31,899	116.0	92844	5	24,948	20.0
92655	3	9,049	33.2	92845	6	15,593	38.5
92656	1	45,422	2.2	92861	2	6,006	33.3
92657	1	8,006	12.5	92862	0	19	0.0
92660	6	33,292	18.0	92865	0	18,312	0.0
92661	1	3,951	25.3	92866	5	16,211	30.8
92662	1	2,897	34.5	92867	4	43,488	9.2
92663	6	22,191	27.0	92868	3	24,030	12.5
92672	2	39,328	5.1	92869	9	40,790	22.1
92673	6	22,057	27.2	92870	9	51,262	17.6
92675	8	38,072	21.0	92886	10	43,875	22.8
92676	0	2,089	0.0	92887	3	23,598	12.7
92677	7	65,626	10.7	Other/Unknown			
<i>Source of Population: Claritas 2005</i>				Total	563	3,039,607	18.5

Orange County Influenza and Pneumonia Deaths by ZIP Code of Residence (2005)



Orange County Crude Rate
18.5 per 100,000 population

- Crude Rate
per 100,000 population**
- 6.8 - 17.6
 - 17.7 - 18.5
 - 18.6 - 26.5
 - > 26.5
 - Suppressed (< 5 cases)

Quality Management, Orange County Health Care Agency, 2008
Data Source: State of California 2005 Death Master File

Table 5.29
Orange County
Diabetes Deaths, 2005
Rate by ZIP Code of Residence

ZIP Code	2005	2005 Population	Rate per 100,000	ZIP Code	2005	2005 Population	Rate per 100,000
90620	10	44,784	22.3	92679	0	41,144	0.0
90621	6	35,542	16.9	92683	18	90,906	19.8
90623	2	16,010	12.5	92688	3	48,489	6.2
90630	9	47,768	18.8	92691	7	47,848	14.6
90631	16	69,005	23.2	92692	6	48,045	12.5
90680	4	32,188	12.4	92694	0	18,000	0.0
90720	3	23,451	12.8	92697	0	824	0.0
90740	16	24,461	65.4	92701	3	58,268	5.1
90742	1	887	112.7	92703	13	73,474	17.7
90743	0	451	0.0	92704	17	91,875	18.5
92602	0	6,242	0.0	92705	13	47,004	27.7
92603	1	10,798	9.3	92706	8	36,737	21.8
92604	3	30,220	9.9	92707	18	65,020	27.7
92606	2	22,701	8.8	92708	14	55,613	25.2
92610	0	15,617	0.0	92780	9	56,454	15.9
92612	0	24,115	0.0	92782	0	19,938	0.0
92614	3	25,582	11.7	92801	16	57,972	27.6
92617	0	13,054	0.0	92802	8	46,292	17.3
92618	0	8,758	0.0	92804	16	90,617	17.7
92620	5	41,705	12.0	92805	13	70,455	18.5
92624	1	7,753	12.9	92806	3	33,614	8.9
92625	1	12,552	8.0	92807	4	34,336	11.6
92626	5	47,669	10.5	92808	4	21,259	18.8
92627	6	64,586	9.3	92821	5	37,003	13.5
92629	6	28,129	21.3	92823	0	1,867	0.0
92630	8	59,550	13.4	92831	3	35,260	8.5
92637	0	15,568	0.0	92832	4	24,994	16.0
92646	14	56,447	24.8	92833	13	51,164	25.4
92647	8	60,592	13.2	92835	5	21,978	22.8
92648	5	46,400	10.8	92840	8	52,292	15.3
92649	4	34,184	11.7	92841	11	31,679	34.7
92651	1	25,180	4.0	92843	12	45,226	26.5
92653	24	31,899	75.2	92844	5	24,948	20.0
92655	3	9,049	33.2	92845	3	15,593	19.2
92656	5	45,422	11.0	92861	1	6,006	16.7
92657	0	8,006	0.0	92862	0	19	0.0
92660	3	33,292	9.0	92865	3	18,312	16.4
92661	2	3,951	50.6	92866	0	16,211	0.0
92662	1	2,897	34.5	92867	7	43,488	16.1
92663	2	22,191	9.0	92868	5	24,030	20.8
92672	2	39,328	5.1	92869	8	40,790	19.6
92673	3	22,057	13.6	92870	10	51,262	19.5
92675	4	38,072	10.5	92886	8	43,875	18.2
92676	0	2,089	0.0	92887	3	23,598	12.7
92677	3	65,626	4.6	Other/Unknown	0		
Total					499	3,039,607	16.4

Section 6: Hospital Discharges

Section 6

Hospital Discharges

Analysis of the leading causes of hospitalization in Orange County provides an overview of the healthcare utilization in the county as well as a proxy for morbidity. Hospitalization data are also useful in monitoring preventable admissions. Preventable hospitalization may cause unnecessary pain and expense to patients and cost insurers, businesses and the county's health care system. Hence, there is much to be gained by reducing their occurrence. More importantly, preventive measures to avoid or reduce such hospitalizations may result in reduced morbidity and mortality.

In Section 3, "Hospitals and Hospitalizations," a detailed analysis of hospitalization trends by each of the 33 short stay hospitals in Orange County is presented (e.g., patient demographics, length of stay, charges, etc.) for all patients—OC residents and non-residents. Thus, this section focuses on the geographic distribution of hospitalizations and leading causes for hospitalization for different age groups and gender by the OC patient's ZIP code of residence.

About the Data:

The data for this section comes from the California Office of Statewide Health Planning and Development (OSHPD) 2006 Patient Discharge Data. This public dataset includes de-identified records of visits to all Orange County hospitals in addition to all hospitalizations by Orange County residents to either OC or non-OC facilities. In the dataset the principal diagnosis for a visit is identified using the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM). ICD-9-CM is the official system of assigning codes to diagnoses and procedures associated with hospital utilization in the United States. This classification system uses codes up to 5 digits. The fifth digit level detail is used to provide greater specificity and is intended for recording the information substantiated in the clinical record. Hospitalizations related to live-born infants according to the type of birth (ICD-9-CM codes V30 – V39) were excluded from these analyses. See Section 10, Birth Indicators, for a more detailed analysis of births.

2006 Hospitalizations for OC Residents (n=255,648)

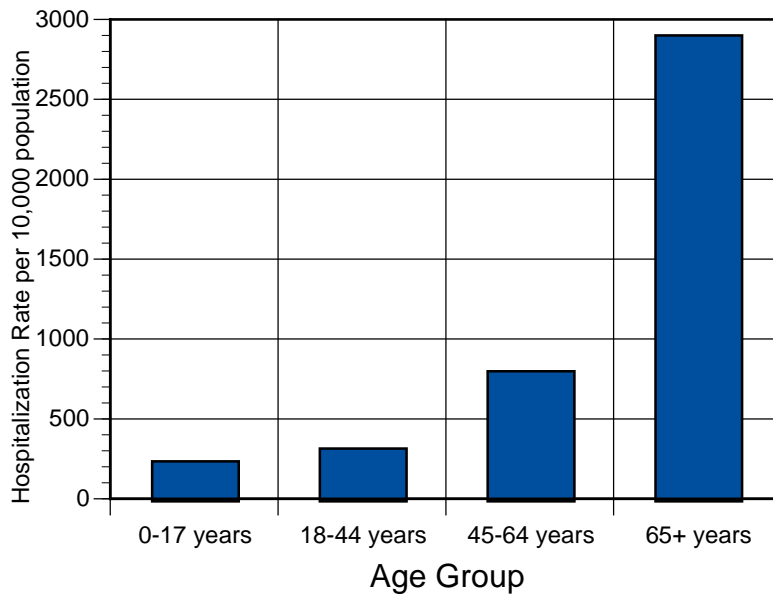
The dataset included a total of 255,648 hospitalizations of residents across 33 OC hospitals in 2006.

- More than half (61.5%) of all hospitalizations were to females (n=157,148).
- The majority (30%) of hospitalizations for females were related to pregnancy, childbirth, and the puerperium (n=47,244). Because these data are presented in more detail in the Birth Indicators in Section 10, they will not be discussed further in this section.

- Children (0-17) accounted for the lowest proportion of those hospitalized at 15.6%. Almost a third of hospitalizations (30%) were for residents between 18 and 44 years, while 46 to 64 year olds made up about 21%. Seniors, 65 and older made up the highest percentage of hospitalizations at 34%.

- The rate of hospitalization increased with age as shown in the graph below. Children 0-17 years of age had the lowest rate of hospitalization at 234 per 10,000, followed by 18 to 44 year olds (313 per 10,000). The rate of hospitalization tripled for 45 to 64 year olds to 797 hospitalizations per 10,000 compared to children. Seniors, 65 years and older, had the highest rate of hospitalization. At 2,900 hospitalizations per 10,000, they are hospitalized almost 4 times more often compared to middle aged persons, and 12 times more often than children.

Hospitalization Rate for Orange County Residents by Age Group (2006)



Tables and Maps

Tables 6.1 through 6.7 below indicate the top 25 diagnoses for all hospitalizations, by age group, and by gender and are ranked based on the percentage of total hospital admissions within each category.

Tables and corresponding maps (6.8 through 6.15) use crude rates per 10,000 of the ZIP code population. For each indicator, the countywide rate is provided. Because the rates in ZIP codes with small populations are unstable, rates should be interpreted with caution.

Tables and maps (6.16 & 6.16) represent the most prevalent, non-birth related, diagnoses for hospitalizations, specifically, “Diseases of the Digestive System” and “Heart Disease,” which were the top 2 diagnoses across all residents. For all residents combined and for 18-44 year

olds, the most common reason for hospitalization was for pregnancy/childbirth which is presented separately and in more detail in the *Birth Indicators* in Section 10.

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Leading Causes of Hospitalizations by Gender and Age Group

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* Data Source of Maps and Tables: State of California Office of Statewide Planning and Development, Patient Discharge Data, 2006

**Table 6.1: Leading Causes of Hospitalization
Number of Visits and Percent
All Residents - Orange County 2006**

Rank	Cause	Number of Visits	Percent
1	Pregnancy, childbirth, and the puerperium (630-677)	47,244	18.5%
2	Diseases of the digestive system (520-579)	26,617	10.4%
3	Heart disease (391-392.0,393-398,402,404,410-416,420-429)	24,391	9.5%
4	Mental Disorders (290-319)	14,460	5.7%
5	Diseases of the genitourinary system (580-629)	12,333	4.8%
6	Malignant neoplasms (140-208,230-234)	10,240	4.0%
7	Infectious and parasitic diseases (001-139)	8,643	3.4%
8	Fractures (800-829)	7,343	2.9%
9	Pneumonia (480-486)	6,879	2.7%
10	Cerebrovascular disease (430-438)	6,506	2.5%
11	Diseases of the musculoskeletal system and connective tissue (710-739)	5,700	2.2%
12	Osteoarthritis and allied disorders (715)	4,989	2.0%
13	Diseases of the skin and subcutaneous tissue (680-709)	4,381	1.7%
14	Diseases of the nervous system and sense organs (320-389)	3,979	1.6%
15	Benign neoplasms (210-229)	3,637	1.4%
16	Diabetes mellitus (250)	3,009	1.2%
17	Diseases of the blood and blood-forming organs	2,714	1.1%
18	Intervertebral disc disorders (722)	2,601	1.0%
19	Chronic bronchitis (491)	2,255	0.9%
20	Volume depletion (276.5)	2,040	0.8%
21	Certain conditions originating in the perinatal period (760-779)	1,906	0.7%
22	Asthma (493)	1,829	0.7%
23	Poisonings (960-989)	1,561	0.6%
24	Congenital anomalies (740-759)	1,267	0.5%
25	Alcohol dependence syndrome (303)	1,168	0.5%
26	Acute bronchitis and bronchiolitis (466)	1,118	0.4%
	Other	46,838	18.3%
	Total =	255,648	100.0%

**Table 6.2: Leading Causes of Hospitalization
Number of Visits and Percent
Male Residents - Orange County 2006**

Rank	Cause	Number of Visits	Percent
1	Heart disease (391-392.0,393-398,402,404,410-416,420-429)	13,910	14.1%
2	Diseases of the digestive system (520-579)	12,392	12.6%
3	Mental Disorders (290-319)	6,987	7.1%
4	Malignant neoplasms (140-208,230-234)	4,885	5.0%
5	Diseases of the genitourinary system (580-629)	4,096	4.2%
6	Infectious and parasitic diseases (001-139)	4,094	4.2%
7	Pneumonia (480-486)	3,333	3.4%
8	Fractures (800-829)	3,327	3.4%
9	Cerebrovascular disease (430-438)	3,021	3.1%
10	Diseases of the musculoskeletal system and connective tissue (710-739)	2,523	2.6%
11	Diseases of the skin and subcutaneous tissue (680-709)	2,354	2.4%
12	Osteoarthritis and allied disorders (715)	2,078	2.1%
13	Diseases of the nervous system and sense organs (320-389)	1,791	1.8%
14	Diabetes mellitus (250)	1,692	1.7%
15	Intervertebral disc disorders (722)	1,329	1.3%
16	Diseases of the blood and blood-forming organs	1,161	1.2%
17	Certain conditions originating in the perinatal period (760-779)	1,091	1.1%
18	Chronic bronchitis (491)	927	0.9%
19	Volume depletion (276.5)	910	0.9%
20	Asthma (493)	745	0.8%
21	Alcohol dependence syndrome (303)	700	0.7%
22	Congenital anomalies (740-759)	700	0.7%
23	Poisonings (960-989)	643	0.7%
24	Acute bronchitis and bronchiolitis (466)	627	0.6%
25	Benign neoplasms (210-229)	448	0.5%
	Other	22,730	23.1%
	Total =	98,494	100.0%

**Table 6.3: Leading Causes of Hospitalization
Number of Visits and Percent
Female Residents - Orange County 2006**

Rank	Cause	Number of Visits	Percent
1	Pregnancy, childbirth, and the puerperium (630-677)	47,244	30.1%
2	Diseases of the digestive system (520-579)	14,225	9.1%
3	Heart disease (391-392.0,393-398,402,404,410-416,420-429)	10,481	6.7%
4	Diseases of the genitourinary system (580-629)	8,237	5.2%
5	Mental Disorders (290-319)	7,473	4.8%
6	Malignant neoplasms (140-208,230-234)	5,355	3.4%
7	Infectious and parasitic diseases (001-139)	4,549	2.9%
8	Fractures (800-829)	4,014	2.6%
9	Pneumonia (480-486)	3,545	2.3%
10	Cerebrovascular disease (430-438)	3,484	2.2%
11	Benign neoplasms (210-229)	3,189	2.0%
12	Diseases of the musculoskeletal system and connective tissue (710-739)	3,177	2.0%
13	Osteoarthritis and allied disorders (715)	2,911	1.9%
14	Diseases of the nervous system and sense organs (320-389)	2,188	1.4%
15	Diseases of the skin and subcutaneous tissue (680-709)	2,027	1.3%
16	Diseases of the blood and blood-forming organs	1,553	1.0%
17	Chronic bronchitis (491)	1,328	0.8%
18	Diabetes mellitus (250)	1,317	0.8%
19	Intervertebral disc disorders (722)	1,272	0.8%
20	Volume depletion (276.5)	1,130	0.7%
21	Asthma (493)	1,084	0.7%
22	Poisonings (960-989)	918	0.6%
23	Certain conditions originating in the perinatal period (760-779)	813	0.5%
24	Congenital anomalies (740-759)	567	0.4%
25	Acute bronchitis and bronchiolitis (466)	491	0.3%
26	Alcohol dependence syndrome (303)	468	0.3%
	Other	24,108	15.3%
		157,148	100.0%

**Table 6.4: Leading Causes of Hospitalization
Number of Visits and Percent
Residents 0 to 17 Years Old - Orange County 2006**

Rank	Cause	Number of Visits	Percent
1	Diseases of the digestive system (520-579)	2,341	11.6%
2	Certain conditions originating in the perinatal period (760-779)	1,906	9.5%
3	Mental Disorders (290-319)	1,423	7.1%
4	Pregnancy, childbirth, and the puerperium (630-677)	1,183	5.9%
5	Infectious and parasitic diseases (001-139)	973	4.8%
6	Congenital anomalies (740-759)	884	4.4%
7	Pneumonia (480-486)	845	4.2%
8	Acute bronchitis and bronchiolitis (466)	832	4.1%
9	Fractures (800-829)	785	3.9%
10	Diseases of the genitourinary system (580-629)	681	3.4%
11	Diseases of the nervous system and sense organs (320-389)	679	3.4%
12	Asthma (493)	630	3.1%
13	Volume depletion (276.5)	460	2.3%
14	Diseases of the skin and subcutaneous tissue (680-709)	455	2.3%
15	Diseases of the musculoskeletal system and connective tissue (710-739)	410	2.0%
16	Diseases of the blood and blood-forming organs	394	2.0%
17	Malignant neoplasms (140-208,230-234)	244	1.2%
18	Poisonings (960-989)	194	1.0%
19	Diabetes mellitus (250)	183	0.9%
20	Heart disease (391-392.0,393-398,402,404,410-416,420-429)	111	0.6%
21	Benign neoplasms (210-229)	84	0.4%
22	Cerebrovascular disease (430-438)	42	0.2%
23	Alcohol dependence syndrome (303)	29	0.1%
24	Chronic bronchitis (491)	13	0.1%
25	Intervertebral disc disorders (722)	7	0.0%
	Other	4,360	21.6%
	Total =	20,148	100.0%

Table 6.5: Leading Causes of Hospitalization
Number of Visits and Percent
Residents 18 to 44 Years Old - Orange County 2006

Rank	Cause	Number of Visits	Percent
1	Pregnancy, childbirth, and the puerperium (630-677)	45,938	54.9%
2	Diseases of the digestive system (520-579)	6,514	7.8%
3	Mental Disorders (290-319)	6,241	7.5%
4	Diseases of the genitourinary system (580-629)	2,578	3.1%
5	Fractures (800-829)	1,522	1.8%
6	Benign neoplasms (210-229)	1,367	1.6%
7	Heart disease (391-392.0,393-398,402,404,410-416,420-429)	1,266	1.5%
8	Malignant neoplasms (140-208,230-234)	1,187	1.4%
9	Infectious and parasitic diseases (001-139)	1,077	1.3%
10	Diseases of the skin and subcutaneous tissue (680-709)	1,077	1.3%
11	Diseases of the musculoskeletal system and connective tissue (710-739)	977	1.2%
12	Intervertebral disc disorders (722)	836	1.0%
13	Diseases of the nervous system and sense organs (320-389)	824	1.0%
14	Diabetes mellitus (250)	723	0.9%
15	Poisonings (960-989)	690	0.8%
16	Alcohol dependence syndrome (303)	524	0.6%
17	Diseases of the blood and blood-forming organs	489	0.6%
18	Pneumonia (480-486)	447	0.5%
19	Cerebrovascular disease (430-438)	265	0.3%
20	Asthma (493)	257	0.3%
21	Volume depletion (276.5)	156	0.2%
22	Congenital anomalies (740-759)	152	0.2%
23	Osteoarthritis and allied disorders (715)	95	0.1%
24	Acute bronchitis and bronchiolitis (466)	33	0.0%
25	Chronic bronchitis (491)	26	0.0%
	Other	8,376	10.0%
	Total =	83,637	100.0%

**Table 6.6: Leading Causes of Hospitalization
Number of Visits and Percent
Residents 45 to 64 Years Old - Orange County 2006**

Rank	Cause	Number of Visits	Percent
1	Diseases of the digestive system (520-579)	8,001	13.8%
2	Heart disease (391-392.0,393-398,402,404,410-416,420-429)	6,740	11.6%
3	Mental Disorders (290-319)	4,418	7.6%
4	Malignant neoplasms (140-208,230-234)	3,848	6.6%
5	Diseases of the genitourinary system (580-629)	3,205	5.5%
6	Diseases of the musculoskeletal system and connective tissue (710-739)	1,916	3.3%
7	Infectious and parasitic diseases (001-139)	1,779	3.1%
8	Benign neoplasms (210-229)	1,747	3.0%
9	Osteoarthritis and allied disorders (715)	1,652	2.9%
10	Cerebrovascular disease (430-438)	1,500	2.6%
11	Diseases of the skin and subcutaneous tissue (680-709)	1,340	2.3%
12	Fractures (800-829)	1,275	2.2%
13	Intervertebral disc disorders (722)	1,181	2.0%
14	Pneumonia (480-486)	1,128	1.9%
15	Diabetes mellitus (250)	1,039	1.8%
16	Diseases of the nervous system and sense organs (320-389)	1,002	1.7%
17	Diseases of the blood and blood-forming organs	652	1.1%
18	Alcohol dependence syndrome (303)	557	1.0%
19	Chronic bronchitis (491)	480	0.8%
20	Poisonings (960-989)	458	0.8%
21	Asthma (493)	411	0.7%
22	Volume depletion (276.5)	330	0.6%
23	Congenital anomalies (740-759)	131	0.2%
24	Pregnancy, childbirth, and the puerperium (630-677)	123	0.2%
25	Acute bronchitis and bronchiolitis (466)	58	0.1%
	Other	12,943	22.3%
	Total =	57,914	100.0%

**Table 6.7: Leading Causes of Hospitalization
Number of Visits and Percent
Residents Age 65 and Older - Orange County 2006**

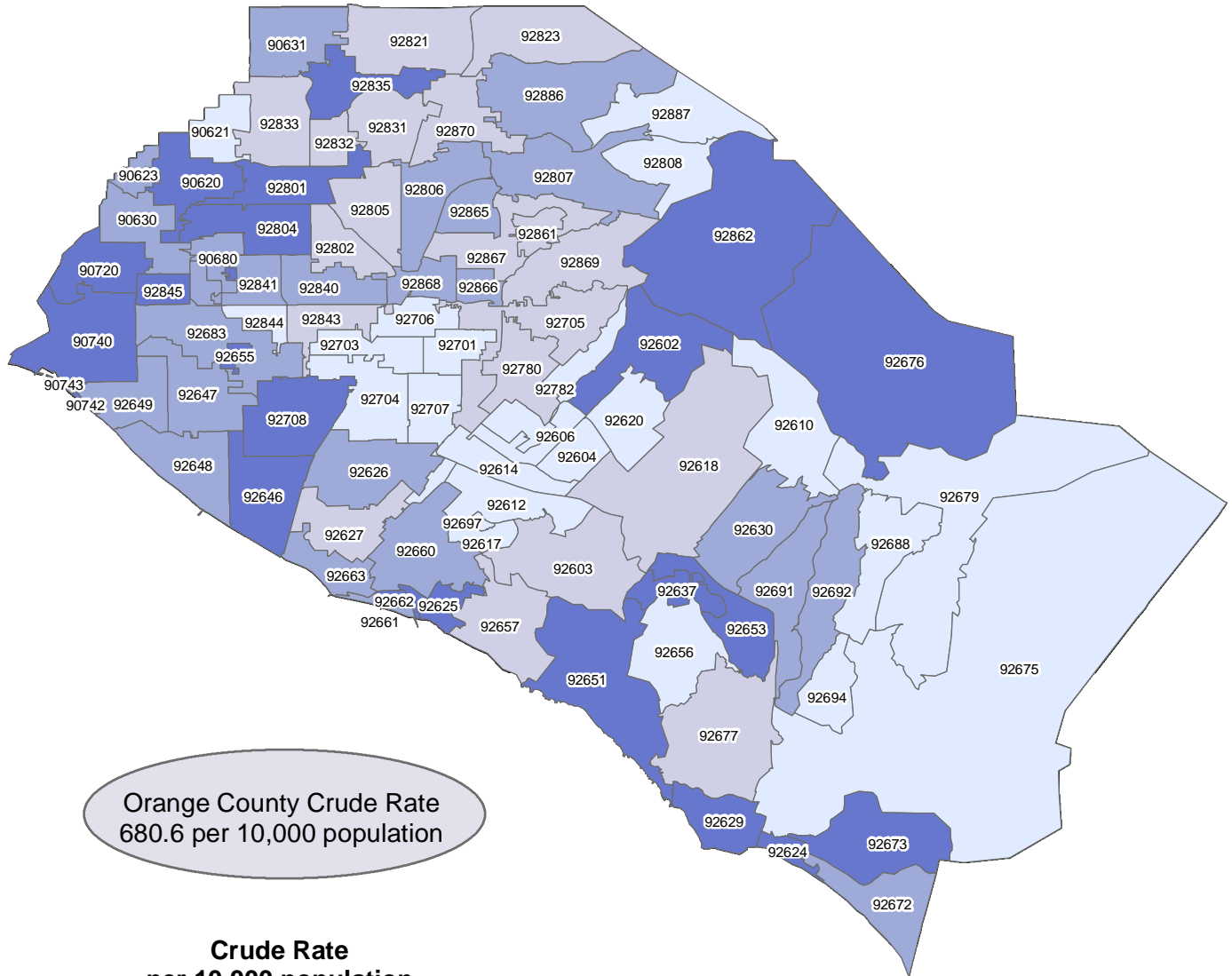
Rank	Cause	Number of Visits	Percent
1	Heart disease (391-392.0,393-398,402,404,410-416,420-429)	16,274	17.3%
2	Diseases of the digestive system (520-579)	9,761	10.4%
3	Diseases of the genitourinary system (580-629)	5,869	6.2%
4	Malignant neoplasms (140-208,230-234)	4,961	5.3%
5	Infectious and parasitic diseases (001-139)	4,814	5.1%
6	Cerebrovascular disease (430-438)	4,699	5.0%
7	Pneumonia (480-486)	4,459	4.7%
8	Fractures (800-829)	3,761	4.0%
9	Osteoarthritis and allied disorders (715)	3,242	3.5%
10	Diseases of the musculoskeletal system and connective tissue (710-739)	2,397	2.6%
11	Mental Disorders (290-319)	2,378	2.5%
12	Chronic bronchitis (491)	1,736	1.8%
13	Diseases of the skin and subcutaneous tissue (680-709)	1,509	1.6%
14	Diseases of the nervous system and sense organs (320-389)	1,474	1.6%
15	Diseases of the blood and blood-forming organs	1,179	1.3%
16	Volume depletion (276.5)	1,094	1.2%
17	Diabetes mellitus (250)	1,064	1.1%
18	Intervertebral disc disorders (722)	577	0.6%
19	Asthma (493)	531	0.6%
20	Benign neoplasms (210-229)	439	0.5%
21	Poisonings (960-989)	219	0.2%
22	Acute bronchitis and bronchiolitis (466)	195	0.2%
23	Congenital anomalies (740-759)	100	0.1%
24	Alcohol dependence syndrome (303)	58	0.1%
	Other	21,159	22.5%
	Total =	93,949	100.0%

Table 6.8
Orange County Hospitalizations Data 2006 (All Residents)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	4,177	44,880	930.7	92679	1,598	36,741	434.9
90621	1,919	35,743	536.9	92683	7,130	90,246	790.1
90623	1,135	15,948	711.7	92688	2,275	47,986	474.1
90630	3,437	48,313	711.4	92691	3,778	47,521	795.0
90631	5,006	68,833	727.3	92692	3,506	48,692	720.0
90680	2,454	31,312	783.7	92694	812	20,000	406.0
90720	1,901	22,202	856.2	92697	7	806	86.8
90740	3,722	24,199	1,538.1	92701	2,826	58,108	486.3
90742	119	801	1,485.6	92703	3,595	73,888	486.5
90743	29	408	710.8	92704	4,411	91,187	483.7
92602	699	7,860	889.3	92705	2,994	44,861	667.4
92603	711	12,090	588.1	92706	2,097	37,028	566.3
92604	1,618	30,438	531.6	92707	2,947	65,093	452.7
92606	834	22,223	375.3	92708	4,812	55,968	859.8
92610	417	14,680	284.1	92780	3,517	55,466	634.1
92612	1,398	26,167	534.3	92782	808	20,172	400.6
92614	1,088	27,163	400.5	92801	4,989	58,173	857.6
92617	104	12,709	81.8	92802	2,864	46,438	616.7
92618	577	9,276	622.0	92804	7,511	89,141	842.6
92620	1,523	41,485	367.1	92805	4,143	70,773	585.4
92624	677	7,939	852.8	92806	2,445	33,932	720.6
92625	1,119	12,306	909.3	92807	2,587	34,537	749.1
92626	3,516	48,466	725.5	92808	940	21,560	436.0
92627	3,714	63,827	581.9	92821	2,379	37,125	640.8
92629	2,311	28,612	807.7	92823	141	2,098	672.1
92630	4,113	59,520	691.0	92831	2,210	35,972	614.4
92637	4,737	16,285	2,908.8	92832	1,586	25,861	613.3
92646	4,732	56,794	833.2	92833	3,113	50,543	615.9
92647	4,175	60,355	691.7	92835	2,006	22,726	882.7
92648	3,532	46,773	755.1	92840	3,586	52,449	683.7
92649	2,673	33,966	787.0	92841	2,258	31,720	711.9
92651	2,084	25,064	831.5	92843	2,709	45,395	596.8
92653	2,905	32,263	900.4	92844	1,319	24,687	534.3
92655	722	8,930	808.5	92845	1,370	15,593	878.6
92656	2,311	50,569	457.0	92861	408	6,036	675.9
92657	457	7,536	606.4	92862	25	19	13,157.9
92660	2,486	33,849	734.4	92865	1,253	18,129	691.2
92661	302	3,882	777.9	92866	1,121	16,163	693.6
92662	278	2,831	982.0	92867	2,617	43,612	600.1
92663	1,570	21,666	724.6	92868	1,800	24,224	743.1
92672	3,010	40,477	743.6	92869	2,318	39,219	591.0
92673	1,795	22,009	815.6	92870	3,533	53,282	663.1
92675	2,950	52,504	561.9	92886	3,072	44,422	691.5
92676	171	1,824	937.5	92887	1,062	23,783	446.5
92677	4,254	65,907	645.5	Unknown	2,464		
Countywide					208,404	3,062,259	680.6

Source of Population: Claritas 2006

Hospitalizations (2006) Rate by ZIP Code of Residence



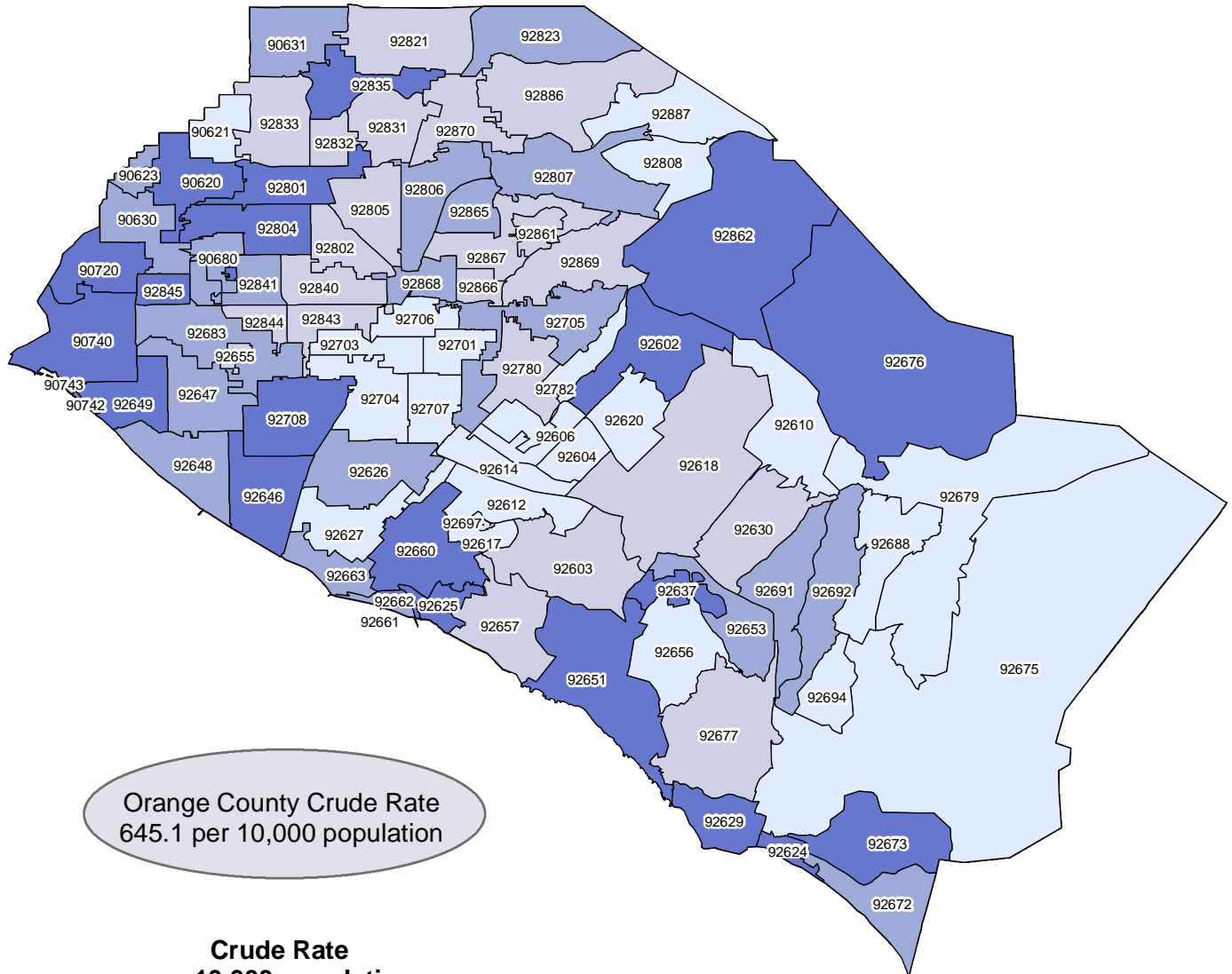
The map does not display cases with a PO Box or unknown ZIP Code (1.2% or 2,464 out of 208,404 Hospitalizations).

Table 6.9
Orange County Hospitalizations Data 2006 (All Males)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	1,981	22,214	891.8	92679	823	18,378	447.8
90621	920	17,912	513.6	92683	3,410	45,244	753.7
90623	560	7,812	716.8	92688	1,006	23,608	426.1
90630	1,595	23,563	676.9	92691	1,708	23,370	730.9
90631	2,276	34,100	667.4	92692	1,678	23,709	707.7
90680	1,147	15,823	724.9	92694	373	10,182	366.3
90720	852	10,692	796.9	92697	4	397	100.8
90740	1,535	10,644	1,442.1	92701	1,504	30,467	493.6
90742	80	439	1,822.3	92703	1,788	39,223	455.9
90743	12	219	547.9	92704	2,268	46,802	484.6
92602	337	3,894	865.4	92705	1,496	22,269	671.8
92603	356	5,837	609.9	92706	997	18,782	530.8
92604	717	14,690	488.1	92707	1,514	33,754	448.5
92606	397	10,911	363.9	92708	2,220	27,439	809.1
92610	192	7,341	261.5	92780	1,600	27,297	586.1
92612	630	12,667	497.4	92782	367	9,936	369.4
92614	507	13,193	384.3	92801	2,302	28,942	795.4
92617	53	6,146	86.2	92802	1,315	23,508	559.4
92618	285	4,978	572.5	92804	3,521	44,332	794.2
92620	745	20,232	368.2	92805	2,060	36,583	563.1
92624	308	4,051	760.3	92806	1,194	17,119	697.5
92625	529	5,866	901.8	92807	1,179	16,890	698.0
92626	1,714	24,395	702.6	92808	476	10,681	445.7
92627	1,799	33,136	542.9	92821	1,062	18,191	583.8
92629	1,119	14,254	785.0	92823	74	1,016	728.3
92630	1,885	29,343	642.4	92831	1,043	18,090	576.6
92637	1,856	5,617	3,304.3	92832	711	13,027	545.8
92646	2,264	28,144	804.4	92833	1,454	25,058	580.3
92647	2,072	30,596	677.2	92835	903	10,839	833.1
92648	1,641	23,574	696.1	92840	1,673	26,103	640.9
92649	1,326	17,060	777.3	92841	1,108	15,856	698.8
92651	1,093	12,760	856.6	92843	1,379	23,026	598.9
92653	1,157	15,632	740.1	92844	686	12,569	545.8
92655	290	4,506	643.6	92845	609	7,607	800.6
92656	1,077	24,591	438.0	92861	190	3,036	625.8
92657	233	3,688	631.8	92862	16	12	13,333.3
92660	1,273	16,501	771.5	92865	576	8,925	645.4
92661	142	2,042	695.4	92866	499	7,914	630.5
92662	152	1,260	1,206.3	92867	1,240	21,830	568.0
92663	781	11,289	691.8	92868	875	12,997	673.2
92672	1,496	20,646	724.6	92869	1,139	19,517	583.6
92673	874	11,080	788.8	92870	1,654	26,451	625.3
92675	1,312	25,833	507.9	92886	1,379	21,761	633.7
92676	76	933	814.6	92887	497	11,738	423.4
92677	1,963	32,136	610.8	Unknown	1,315		
Countywide					98,494	1,526,715	645.1

Source of Population: Claritas 2006

Hospitalizations (2006) Males Rate by ZIP Code of Residence



Orange County Crude Rate
645.1 per 10,000 population

- Crude Rate
per 10,000 population**
- 86.2 - 542.9
 - 543.0 - 645.1
 - 645.2 - 753.7
 - > 753.7
 - Suppressed (< 5 cases)

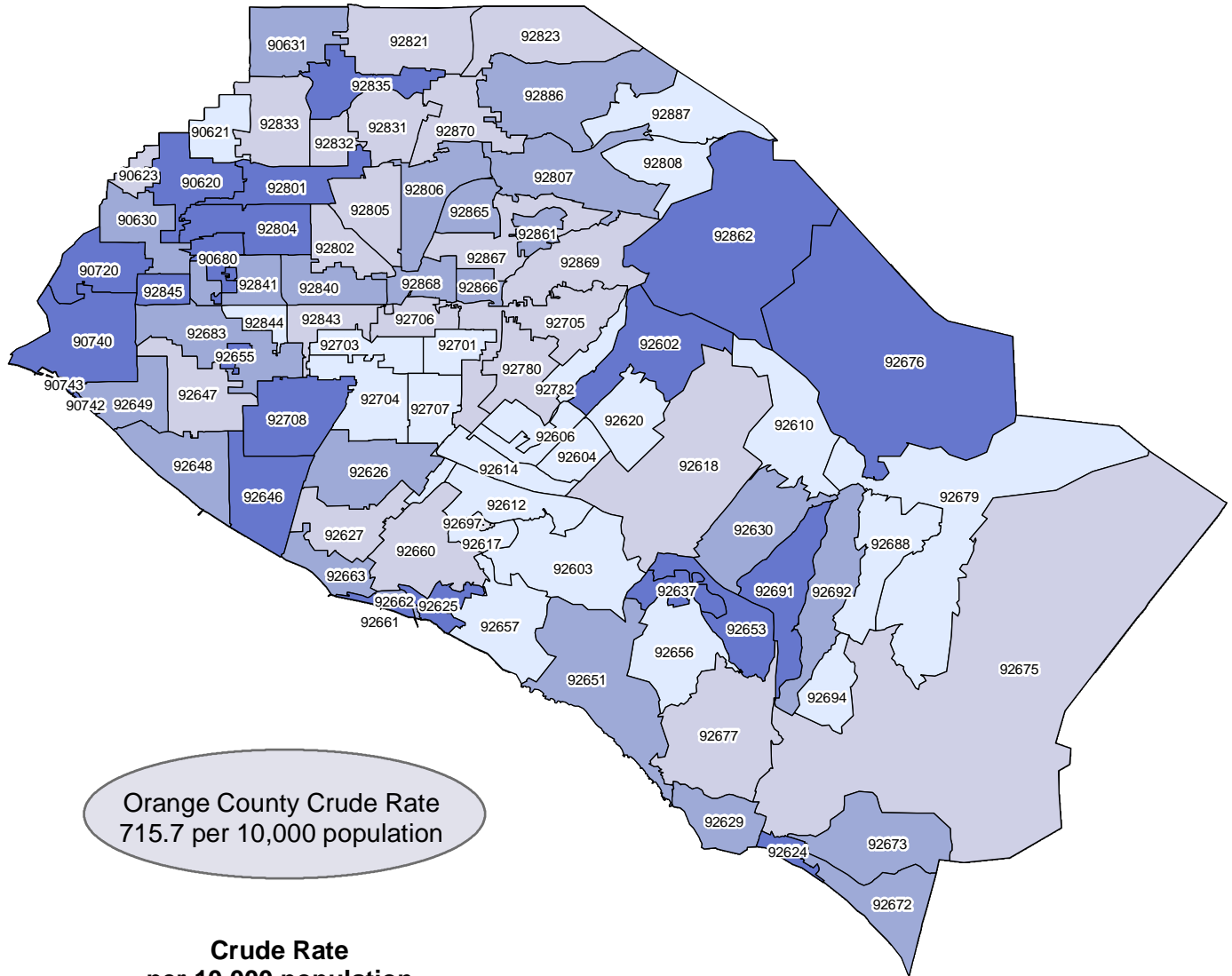
The map does not display cases with a PO Box or unknown ZIP Code (1.3% or 1,315 out of 98,494 Hospitalizations).

Table 6.10
Orange County Hospitalizations Data 2006 (All Females)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	2,196	22,666	968.9	92679	775	18,363	422.0
90621	999	17,831	560.3	92683	3,720	45,002	826.6
90623	574	8,136	705.5	92688	1,269	24,378	520.6
90630	1,842	24,750	744.2	92691	2,069	24,151	856.7
90631	2,730	34,733	786.0	92692	1,828	24,983	731.7
90680	1,307	15,489	843.8	92694	439	9,818	447.1
90720	1,049	11,510	911.4	92697	3	409	73.3
90740	2,187	13,555	1,613.4	92701	1,322	27,641	478.3
90742	39	362	1,077.3	92703	1,807	34,665	521.3
90743	17	189	899.5	92704	2,143	44,385	482.8
92602	362	3,966	912.8	92705	1,498	22,592	663.1
92603	355	6,253	567.7	92706	1,099	18,246	602.3
92604	901	15,748	572.1	92707	1,433	31,339	457.3
92606	437	11,312	386.3	92708	2,592	28,529	908.5
92610	225	7,339	306.6	92780	1,917	28,169	680.5
92612	768	13,500	568.9	92782	441	10,236	430.8
92614	581	13,970	415.9	92801	2,687	29,231	919.2
92617	51	6,563	77.7	92802	1,549	22,930	675.5
92618	292	4,298	679.4	92804	3,990	44,809	890.4
92620	778	21,253	366.1	92805	2,083	34,190	609.2
92624	369	3,888	949.1	92806	1,251	16,813	744.1
92625	590	6,440	916.1	92807	1,407	17,647	797.3
92626	1,802	24,071	748.6	92808	464	10,879	426.5
92627	1,915	30,691	624.0	92821	1,317	18,934	695.6
92629	1,192	14,358	830.2	92823	67	1,082	619.2
92630	2,228	30,177	738.3	92831	1,167	17,882	652.6
92637	2,881	10,668	2,700.6	92832	875	12,834	681.8
92646	2,468	28,650	861.4	92833	1,658	25,485	650.6
92647	2,103	29,759	706.7	92835	1,103	11,887	927.9
92648	1,891	23,199	815.1	92840	1,913	26,346	726.1
92649	1,347	16,906	796.8	92841	1,150	15,864	724.9
92651	991	12,304	805.4	92843	1,330	22,369	594.6
92653	1,748	16,631	1,051.0	92844	633	12,118	522.4
92655	432	4,424	976.5	92845	761	7,986	952.9
92656	1,234	25,978	475.0	92861	218	3,000	726.7
92657	224	3,848	582.1	92862	9	7	12,857.1
92660	1,213	17,348	699.2	92865	677	9,204	735.5
92661	160	1,840	869.6	92866	622	8,249	754.0
92662	126	1,571	802.0	92867	1,377	21,782	632.2
92663	789	10,377	760.3	92868	925	11,227	823.9
92672	1,514	19,831	763.5	92869	1,178	19,702	597.9
92673	921	10,929	842.7	92870	1,879	26,831	700.3
92675	1,638	26,671	614.2	92886	1,693	22,661	747.1
92676	95	891	1,066.2	92887	565	12,045	469.1
92677	2,291	33,771	678.4	Unknown	1,149		
Countywide					109,904	1,535,544	715.7

Source of Population: Claritas 2006

Hospitalizations (2006) Females Rate by ZIP Code of Residence



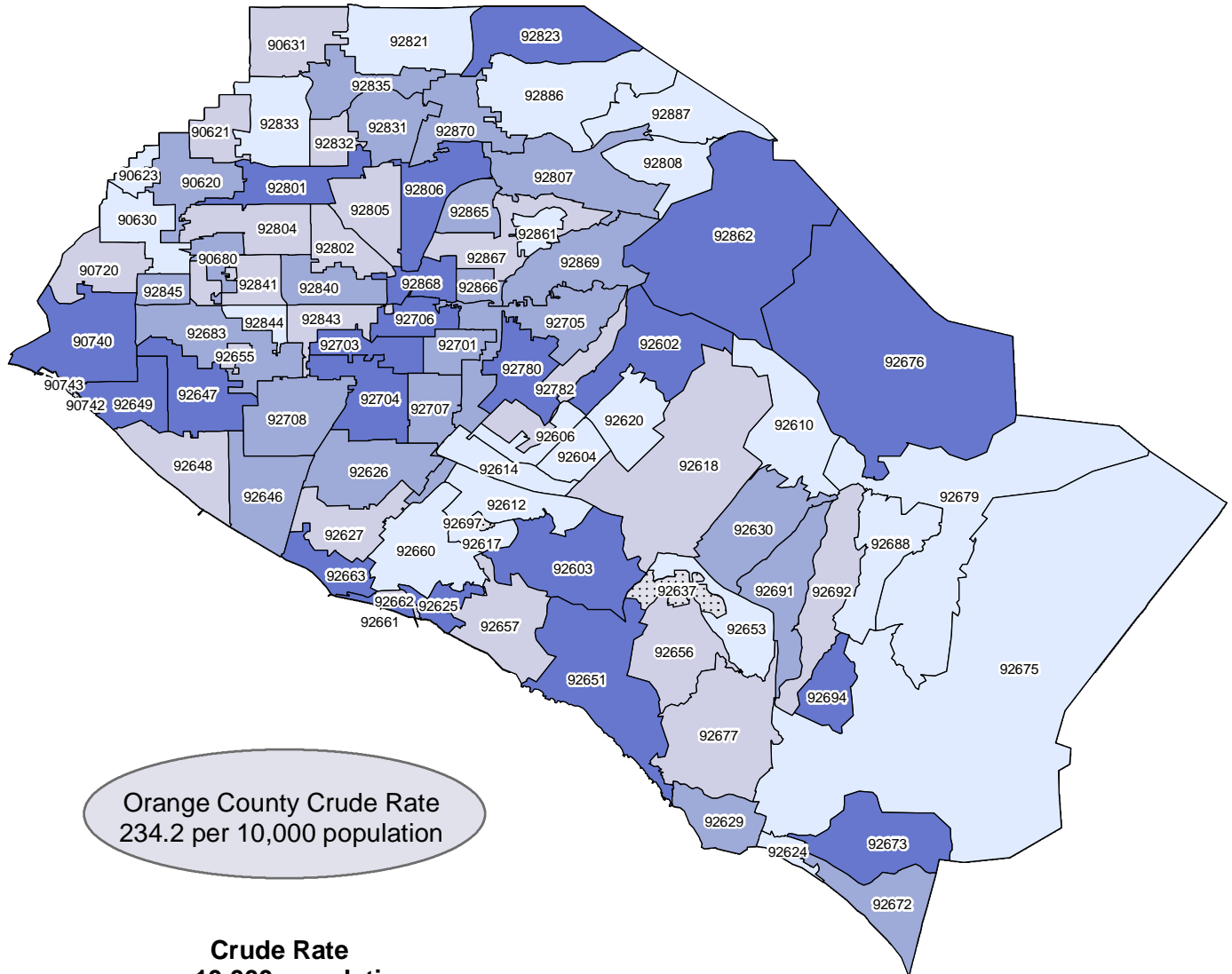
The map does not display cases with a PO Box or unknown ZIP Code (1.0% or 1,149 out of 109,904 Hospitalizations).

Table 6.11
Orange County Hospitalizations Data 2006 (0-17 Yrs)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	294	11,820	248.7	92679	223	12,799	174.2
90621	237	11,105	213.4	92683	612	23,618	259.1
90623	71	3,468	204.7	92688	322	15,845	203.2
90630	246	11,974	205.4	92691	286	12,065	237.0
90631	440	19,359	227.3	92692	287	13,036	220.2
90680	219	9,265	236.4	92694	179	6,595	271.4
90720	120	5,177	231.8	92697	1	36	277.8
90740	79	2,993	263.9	92701	509	21,162	240.5
90742	4	92	434.8	92703	683	24,298	281.1
90743	0	79	0.0	92704	757	28,988	261.1
92602	94	2,470	380.6	92705	315	12,460	252.8
92603	79	2,695	293.1	92706	353	12,142	290.7
92604	149	7,178	207.6	92707	525	21,232	247.3
92606	99	5,548	178.4	92708	297	12,616	235.4
92610	65	4,896	132.8	92780	414	15,716	263.4
92612	73	3,974	183.7	92782	107	5,022	213.1
92614	101	6,488	155.7	92801	479	18,159	263.8
92617	7	1,131	61.9	92802	344	14,775	232.8
92618	39	1,739	224.3	92804	594	25,892	229.4
92620	111	11,334	97.9	92805	528	23,980	220.2
92624	36	1,737	207.3	92806	259	9,511	272.3
92625	50	1,765	283.3	92807	202	7,850	257.3
92626	240	9,963	240.9	92808	108	6,156	175.4
92627	387	16,643	232.5	92821	161	8,872	181.5
92629	137	5,608	244.3	92823	14	472	296.6
92630	363	15,388	235.9	92831	187	7,672	243.7
92637	0	36	0.0	92832	163	7,299	223.3
92646	320	12,298	260.2	92833	238	13,564	175.5
92647	425	15,405	275.9	92835	117	4,827	242.4
92648	199	9,117	218.3	92840	363	14,408	251.9
92649	180	6,567	274.1	92841	186	8,557	217.4
92651	119	4,097	290.5	92843	306	13,887	220.3
92653	148	8,028	184.4	92844	141	6,866	205.4
92655	57	2,444	233.2	92845	97	3,777	256.8
92656	299	13,981	213.9	92861	22	1,274	172.7
92657	41	1,934	212.0	92862	5	9	5,555.6
92660	121	6,896	175.5	92865	125	4,873	256.5
92661	15	467	321.2	92866	103	4,293	239.9
92662	6	280	214.3	92867	277	12,050	229.9
92663	74	2,815	262.9	92868	240	6,337	378.7
92672	218	8,961	243.3	92869	258	10,166	253.8
92673	191	6,217	307.2	92870	336	13,858	242.5
92675	255	13,711	186.0	92886	190	11,096	171.2
92676	15	359	417.8	92887	111	6,905	160.8
92677	373	17,339	215.1	Unknown	145		
Countywide					18,965	809,856	234.2

Source of Population: Claritas 2006

Hospitalizations (2006) Ages 0 to 17 years Rate by ZIP Code of Residence



Orange County Crude Rate
234.2 per 10,000 population

- Crude Rate
per 10,000 population**
- 61.9 - 207.6
 - 207.7 - 234.2
 - 234.3 - 260.2
 - > 260.2
 - Suppressed (< 5 cases)

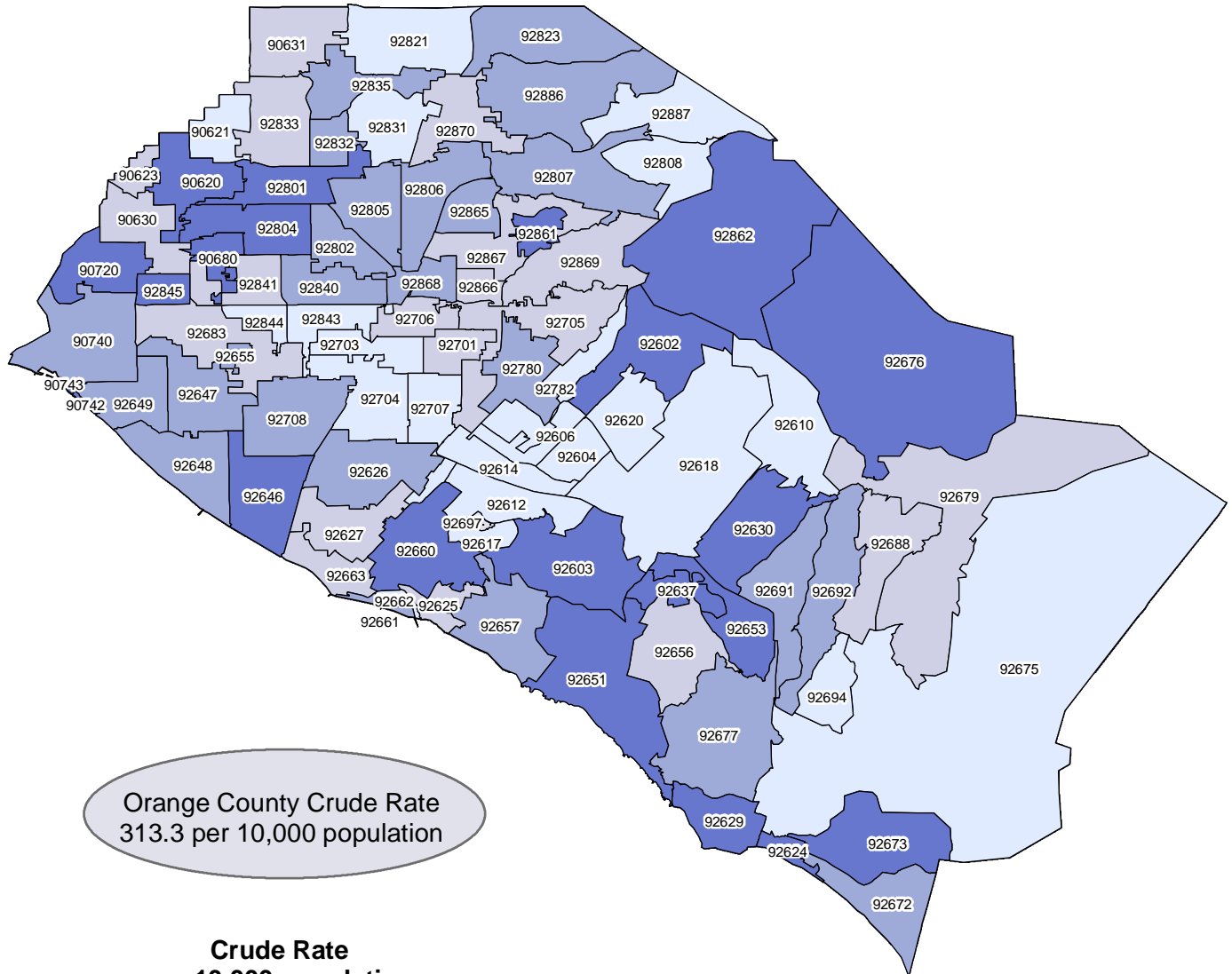
The map does not display cases with a PO Box or unknown ZIP Code (0.8% or 145 out of 18,965 Hospitalizations).

Table 6.12
Orange County Hospitalizations Data 2006 (18-44 Yrs)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	697	16,792	415.1	92679	342	12,604	271.3
90621	408	15,078	270.6	92683	1,019	35,089	290.4
90623	159	5,669	280.5	92688	632	20,637	306.2
90630	529	17,322	305.4	92691	583	16,330	357.0
90631	829	26,470	313.2	92692	492	15,699	313.4
90680	480	12,776	375.7	92694	217	9,315	233.0
90720	270	7,126	378.9	92697	3	749	40.1
90740	185	5,494	336.7	92701	774	26,656	290.4
90742	15	340	441.2	92703	823	33,864	243.0
90743	7	138	507.2	92704	1,023	40,244	254.2
92602	211	3,561	592.5	92705	489	16,106	303.6
92603	135	3,683	366.5	92706	438	15,472	283.1
92604	260	10,626	244.7	92707	711	29,355	242.2
92606	179	9,938	180.1	92708	623	19,708	316.1
92610	129	6,277	205.5	92780	720	22,927	314.0
92612	220	12,647	174.0	92782	188	8,977	209.4
92614	233	11,077	210.3	92801	1,075	24,277	442.8
92617	46	10,426	44.1	92802	677	19,746	342.9
92618	122	4,904	248.8	92804	1,435	36,345	394.8
92620	264	15,096	174.9	92805	1,119	31,097	359.8
92624	138	2,662	518.4	92806	499	14,470	344.9
92625	112	3,953	283.3	92807	367	11,593	316.6
92626	724	21,807	332.0	92808	193	8,538	226.0
92627	871	29,490	295.4	92821	365	13,800	264.5
92629	360	9,969	361.1	92823	20	559	357.8
92630	850	22,389	379.7	92831	432	17,301	249.7
92637	27	221	1,221.7	92832	386	11,302	341.5
92646	777	19,970	389.1	92833	584	18,992	307.5
92647	908	25,390	357.6	92835	258	7,281	354.3
92648	676	20,098	336.4	92840	700	21,197	330.2
92649	404	12,469	324.0	92841	375	12,288	305.2
92651	363	7,810	464.8	92843	508	18,876	269.1
92653	390	10,599	368.0	92844	256	10,079	254.0
92655	119	3,609	329.7	92845	195	5,188	375.9
92656	669	23,296	287.2	92861	62	1,611	384.9
92657	79	2,465	320.5	92862	5	7	7,142.9
92660	352	9,736	361.5	92865	220	6,892	319.2
92661	55	1,705	322.6	92866	203	6,876	295.2
92662	19	893	212.8	92867	471	16,850	279.5
92663	283	9,945	284.6	92868	370	10,878	340.1
92672	514	14,938	344.1	92869	434	14,754	294.2
92673	321	6,927	463.4	92870	618	20,979	294.6
92675	428	16,303	262.5	92886	470	14,371	327.0
92676	30	625	480.0	92887	185	8,122	227.8
92677	743	22,584	329.0	Unknown	550		
Countywide					37,699	1,203,294	313.3

Source of Population: Claritas 2006

Hospitalizations (2006) Ages 18 to 44 Years Rate by ZIP Code of Residence



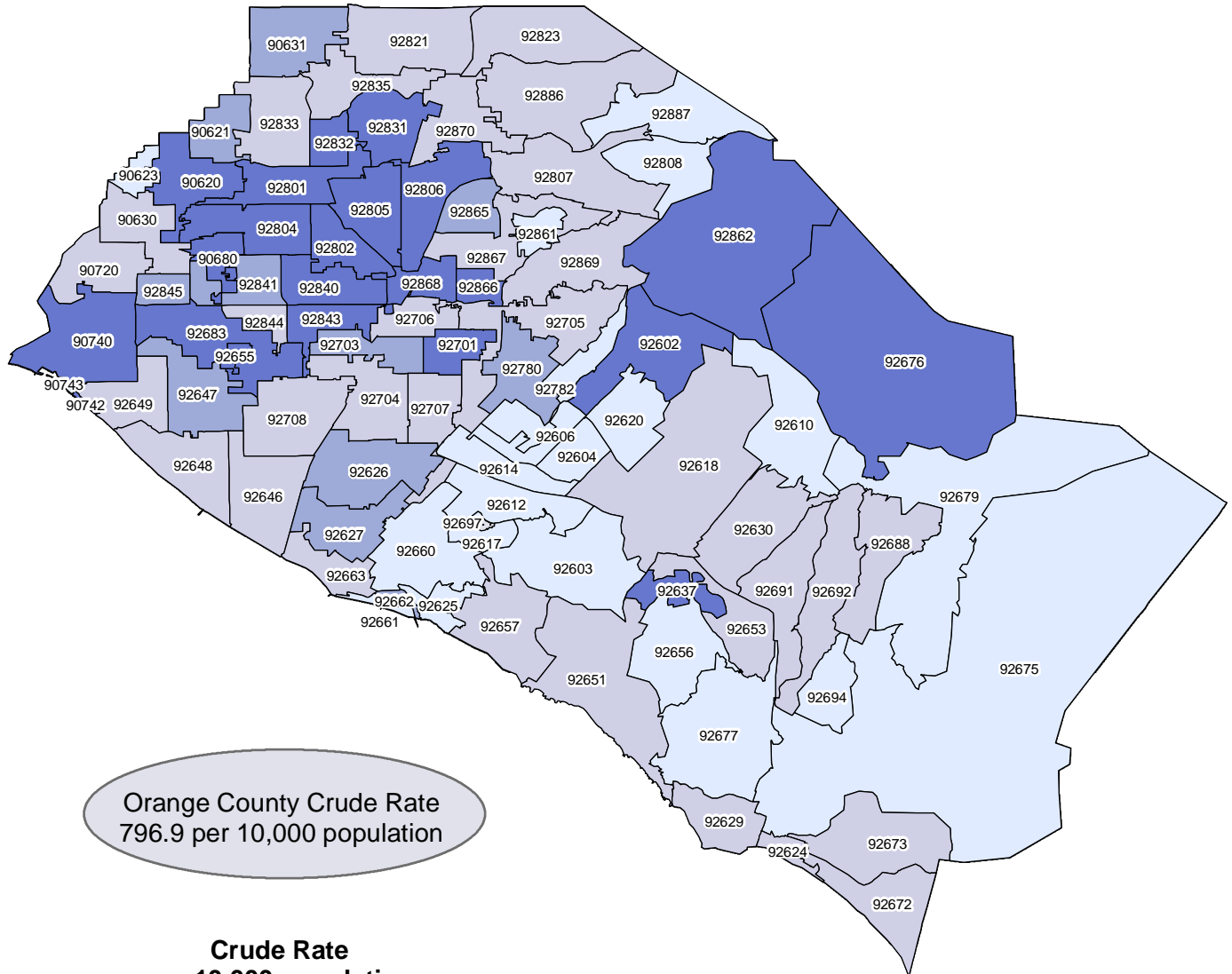
The map does not display cases with a PO Box or unknown ZIP Code (1.5% or 550 out of 37,699 Hospitalizations).

Table 6.13
Orange County Hospitalizations Data 2006 (45-64 Yrs)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	1,195	10,868	1,099.6	92679	608	9,714	625.9
90621	609	7,001	869.9	92683	2,077	20,900	993.8
90623	310	4,791	647.0	92688	672	9,651	696.3
90630	1,043	13,236	788.0	92691	1,019	13,725	742.4
90631	1,339	15,164	883.0	92692	904	13,140	688.0
90680	723	5,938	1,217.6	92694	205	3,779	542.4
90720	470	6,150	764.2	92697	1	19	526.3
90740	536	5,847	916.7	92701	782	7,834	998.2
90742	40	267	1,498.1	92703	977	11,702	834.9
90743	7	148	473.0	92704	1,119	16,236	689.2
92602	212	1,518	1,396.6	92705	755	10,545	716.0
92603	221	4,398	502.5	92706	498	6,325	787.4
92604	451	9,273	486.4	92707	799	11,029	724.5
92606	259	5,402	479.5	92708	1,289	16,358	788.0
92610	151	3,039	496.9	92780	973	11,748	828.2
92612	373	6,455	577.8	92782	254	4,946	513.5
92614	349	7,788	448.1	92801	1,431	10,562	1,354.9
92617	24	950	252.6	92802	803	8,173	982.5
92618	152	2,127	714.6	92804	2,145	17,925	1,196.7
92620	432	11,935	362.0	92805	1,246	11,616	1,072.7
92624	184	2,371	776.0	92806	698	6,844	1,019.9
92625	248	3,961	626.1	92807	839	11,011	762.0
92626	983	11,390	863.0	92808	302	5,579	541.3
92627	1,132	13,077	865.6	92821	770	10,008	769.4
92629	644	8,968	718.1	92823	52	725	717.2
92630	1,234	15,731	784.4	92831	667	7,338	909.0
92637	278	1,164	2,388.3	92832	437	4,866	898.1
92646	1,325	16,650	795.8	92833	951	12,657	751.4
92647	1,191	13,881	858.0	92835	432	6,059	713.0
92648	996	12,727	782.6	92840	1,072	11,333	945.9
92649	814	10,285	791.4	92841	633	7,250	873.1
92651	648	9,355	692.7	92843	822	8,905	923.1
92653	714	8,967	796.3	92844	408	5,454	748.1
92655	202	1,965	1,028.0	92845	357	4,259	838.2
92656	664	11,078	599.4	92861	106	2,139	495.6
92657	162	2,475	654.5	92862	7	2	35,000.0
92660	633	10,938	578.7	92865	356	4,202	847.2
92661	49	1,040	471.2	92866	324	3,382	958.0
92662	81	980	826.5	92867	778	10,271	757.5
92663	432	5,550	778.4	92868	542	4,619	1,173.4
92672	825	10,768	766.2	92869	702	10,320	680.2
92673	446	6,490	687.2	92870	908	13,068	694.8
92675	714	15,538	459.5	92886	906	13,796	656.7
92676	90	726	1,239.7	92887	398	7,293	545.7
92677	1,271	19,488	652.2	Unknown	911		
Countywide					57,791	725,165	796.9

Source of Population: Claritas 2006

Hospitalizations (2006) Ages 45 to 64 Years Rate by ZIP Code of Residence



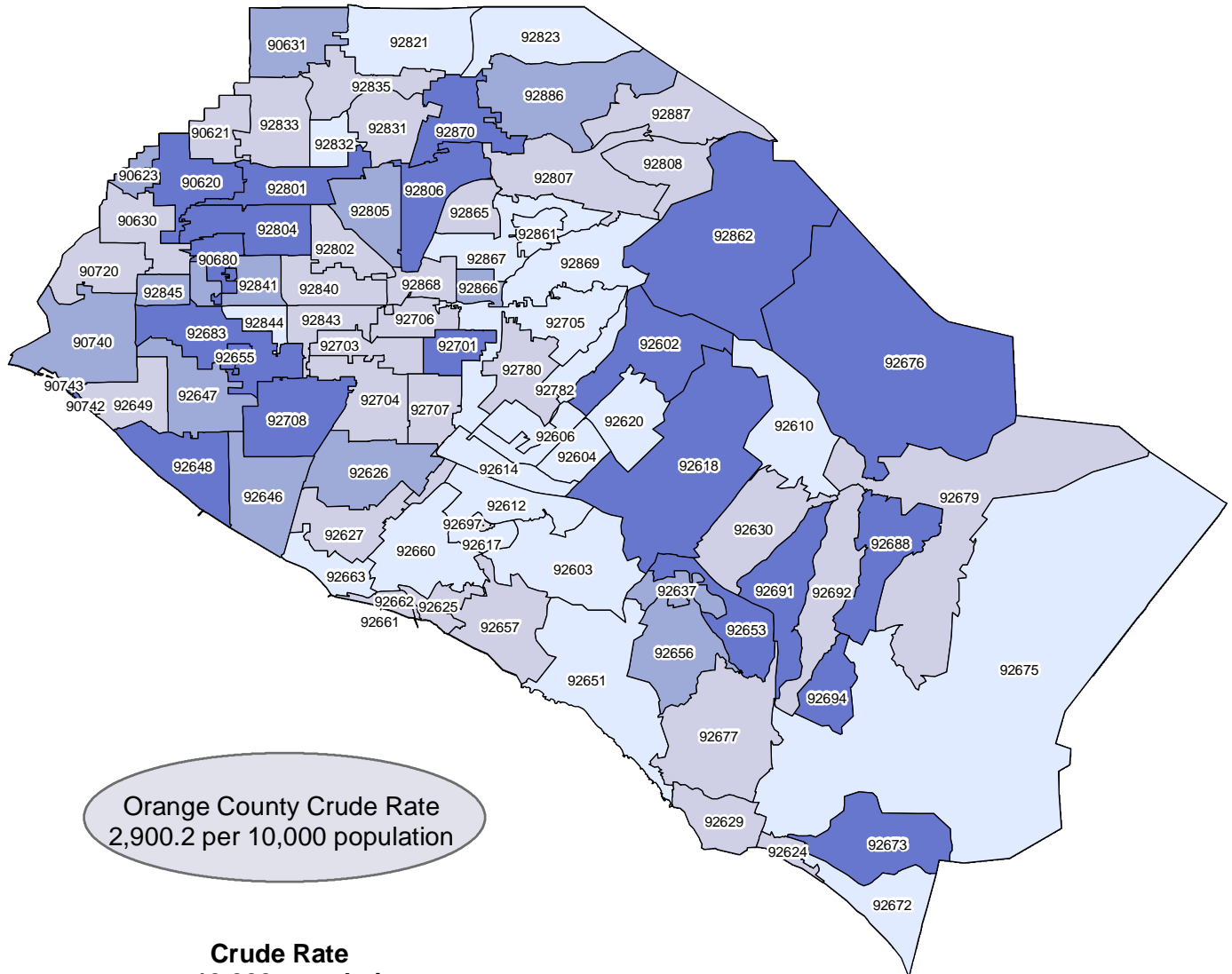
The map does not display cases with a PO Box or unknown ZIP Code (1.6% or 911 out of 57,791 Hospitalizations).

Table 6.14
Orange County Hospitalizations Data 2006 (65+ Yrs)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	1,991	5,400	3,687.0	92679	425	1,624	2,617.0
90621	665	2,559	2,598.7	92683	3,422	10,639	3,216.5
90623	595	2,020	2,945.5	92688	649	1,853	3,502.4
90630	1,619	5,781	2,800.6	92691	1,890	5,401	3,499.4
90631	2,398	7,840	3,058.7	92692	1,823	6,817	2,674.2
90680	1,032	3,333	3,096.3	92694	211	310	6,795.7
90720	1,041	3,749	2,776.7	92697	2	2	10,000.0
90740	2,922	9,865	2,962.0	92701	761	2,456	3,098.5
90742	60	102	5,882.4	92703	1,112	4,024	2,763.4
90743	15	43	3,488.4	92704	1,512	5,719	2,643.8
92602	182	311	5,852.1	92705	1,435	5,750	2,495.7
92603	276	1,314	2,100.5	92706	808	3,089	2,615.7
92604	758	3,361	2,255.3	92707	912	3,477	2,623.0
92606	297	1,335	2,224.7	92708	2,603	7,286	3,572.6
92610	72	468	1,538.5	92780	1,410	5,075	2,778.3
92612	732	3,091	2,368.2	92782	259	1,227	2,110.8
92614	405	1,810	2,237.6	92801	2,004	5,175	3,872.5
92617	27	202	1,336.6	92802	1,040	3,744	2,777.8
92618	264	506	5,217.4	92804	3,337	8,979	3,716.4
92620	716	3,120	2,294.9	92805	1,250	4,080	3,063.7
92624	319	1,169	2,728.8	92806	989	3,107	3,183.1
92625	709	2,627	2,698.9	92807	1,179	4,083	2,887.6
92626	1,569	5,306	2,957.0	92808	337	1,287	2,618.5
92627	1,324	4,617	2,867.7	92821	1,083	4,445	2,436.4
92629	1,170	4,067	2,876.8	92823	55	342	1,608.2
92630	1,666	6,012	2,771.1	92831	924	3,661	2,523.9
92637	4,432	14,864	2,981.7	92832	600	2,394	2,506.3
92646	2,310	7,876	2,933.0	92833	1,340	5,330	2,514.1
92647	1,651	5,679	2,907.2	92835	1,199	4,559	2,630.0
92648	1,661	4,831	3,438.2	92840	1,451	5,511	2,632.9
92649	1,275	4,645	2,744.9	92841	1,064	3,625	2,935.2
92651	954	3,802	2,509.2	92843	1,073	3,727	2,879.0
92653	1,653	4,669	3,540.4	92844	514	2,288	2,246.5
92655	344	912	3,771.9	92845	721	2,369	3,043.5
92656	679	2,214	3,066.8	92861	218	1,012	2,154.2
92657	175	662	2,643.5	92862	8	1	80,000.0
92660	1,380	6,279	2,197.8	92865	552	2,162	2,553.2
92661	183	670	2,731.3	92866	491	1,612	3,045.9
92662	172	678	2,536.9	92867	1,091	4,441	2,456.7
92663	781	3,356	2,327.2	92868	648	2,390	2,711.3
92672	1,453	5,810	2,500.9	92869	924	3,979	2,322.2
92673	837	2,375	3,524.2	92870	1,671	5,377	3,107.7
92675	1,553	6,952	2,233.9	92886	1,506	5,159	2,919.2
92676	36	114	3,157.9	92887	368	1,463	2,515.4
92677	1,867	6,496	2,874.1	Unknown	858		
Countywide					93,949	323,943	2,900.2

Source of Population: Claritas 2006

Hospitalizations (2006) Ages 65 and Over Rate by ZIP Code of Residence



Orange County Crude Rate
2,900.2 per 10,000 population

- Crude Rate
per 10,000 population**
- 1,336.6 - 2,509.2
 - 2,509.3 - 2,900.2
 - 2,900.3 - 3,066.8
 - > 3,066.8
 - Suppressed (< 5 cases)

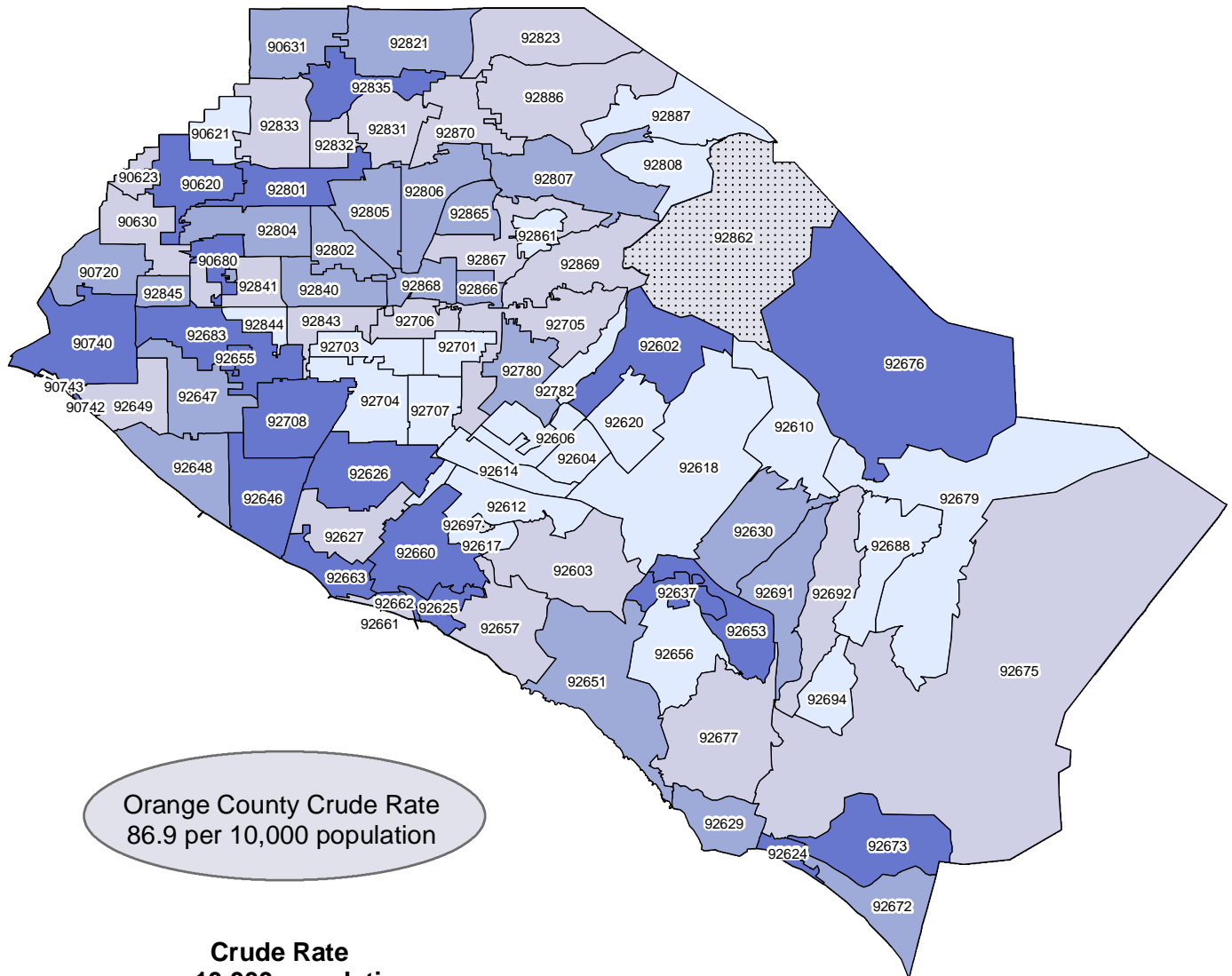
The map does not display cases with a PO Box or unknown ZIP Code (0.9% or 858 out of 93,949 Hospitalizations).

Table 6.15
Orange County
Diseases of the Digestive System Related Hospitalizations, 2006 (All Ages)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	493	44,880	109.8	92679	224	36,741	61.0
90621	249	35,743	69.7	92683	945	90,246	104.7
90623	132	15,948	82.8	92688	278	47,986	57.9
90630	392	48,313	81.1	92691	432	47,521	90.9
90631	648	68,833	94.1	92692	422	48,692	86.7
90680	348	31,312	111.1	92694	94	20,000	47.0
90720	211	22,202	95.0	92697	1	806	12.4
90740	399	24,199	164.9	92701	397	58,108	68.3
90742	13	801	162.3	92703	540	73,888	73.1
90743	1	408	24.5	92704	660	91,187	72.4
92602	83	7,860	105.6	92705	372	44,861	82.9
92603	93	12,090	76.9	92706	286	37,028	77.2
92604	192	30,438	63.1	92707	443	65,093	68.1
92606	118	22,223	53.1	92708	544	55,968	97.2
92610	78	14,680	53.1	92780	490	55,466	88.3
92612	192	26,167	73.4	92782	102	20,172	50.6
92614	141	27,163	51.9	92801	678	58,173	116.5
92617	18	12,709	14.2	92802	404	46,438	87.0
92618	63	9,276	67.9	92804	848	89,141	95.1
92620	204	41,485	49.2	92805	646	70,773	91.3
92624	90	7,939	113.4	92806	326	33,932	96.1
92625	122	12,306	99.1	92807	301	34,537	87.2
92626	471	48,466	97.2	92808	114	21,560	52.9
92627	495	63,827	77.6	92821	328	37,125	88.4
92629	258	28,612	90.2	92823	18	2,098	85.8
92630	518	59,520	87.0	92831	304	35,972	84.5
92637	520	16,285	319.3	92832	206	25,861	79.7
92646	620	56,794	109.2	92833	433	50,543	85.7
92647	569	60,355	94.3	92835	252	22,726	110.9
92648	419	46,773	89.6	92840	461	52,449	87.9
92649	283	33,966	83.3	92841	270	31,720	85.1
92651	239	25,064	95.4	92843	358	45,395	78.9
92653	321	32,263	99.5	92844	179	24,687	72.5
92655	89	8,930	99.7	92845	148	15,593	94.9
92656	293	50,569	57.9	92861	46	6,036	76.2
92657	58	7,536	77.0	92862	4	19	2,105.3
92660	341	33,849	100.7	92865	165	18,129	91.0
92661	31	3,882	79.9	92866	151	16,163	93.4
92662	39	2,831	137.8	92867	343	43,612	78.6
92663	239	21,666	110.3	92868	225	24,224	92.9
92672	383	40,477	94.6	92869	313	39,219	79.8
92673	212	22,009	96.3	92870	442	53,282	83.0
92675	415	52,504	79.0	92886	353	44,422	79.5
92676	21	1,824	115.1	92887	137	23,783	57.6
92677	537	65,907	81.5	Unknown	283		
Countywide					26,617	3,062,259	86.9

Source of Population: Claritas 2006

Hospitalizations (2006) Diseases of the Digestive System Rate by ZIP Code of Residence



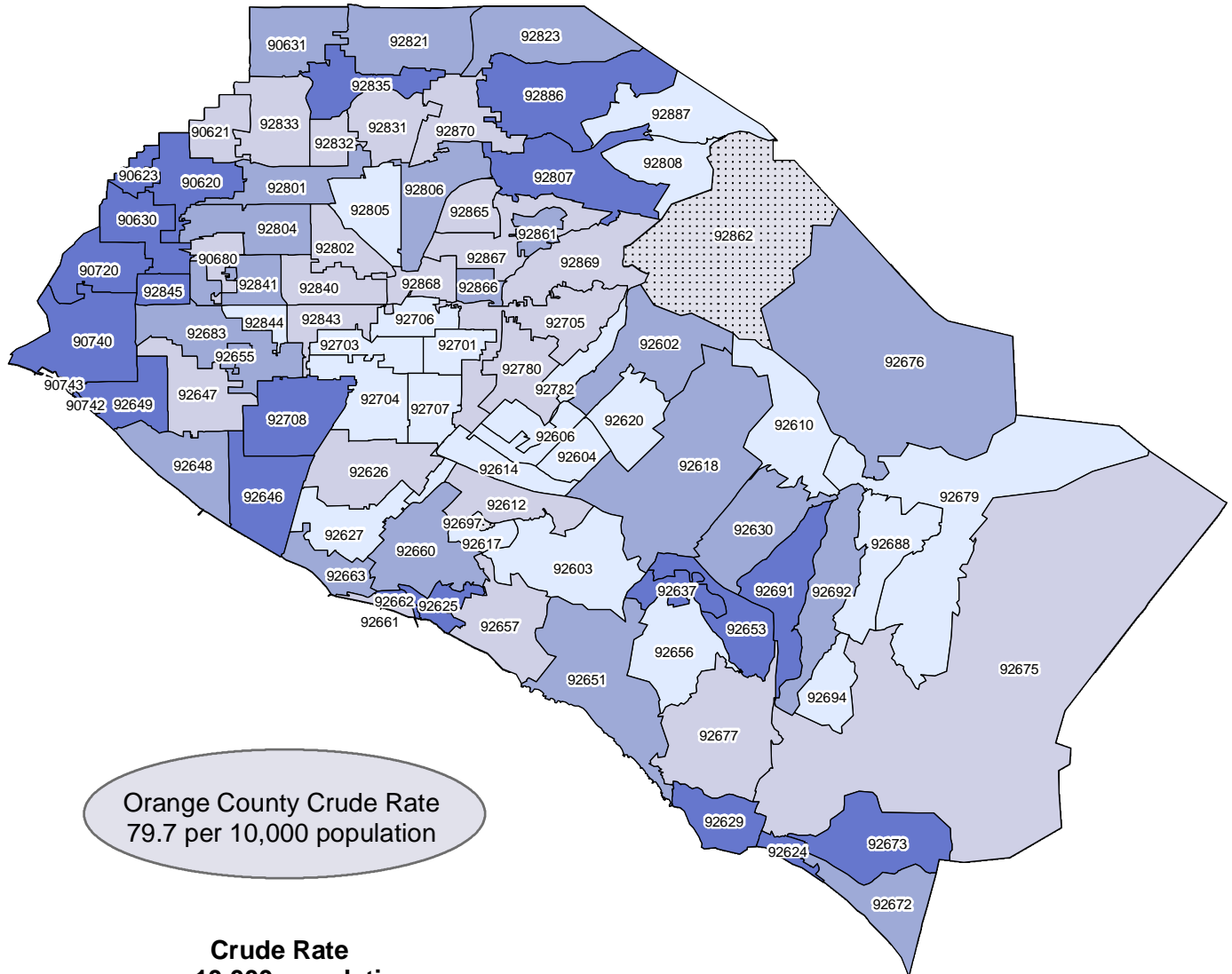
The map does not display cases with a PO Box or unknown ZIP Code (1.1% or 283 out of 26,617 Hospitalizations).

Table 6.16
Orange County
Heart Disease Related Hospitalizations Data 2006 (All Ages)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	494	44,880	110.1	92679	164	36,741	44.6
90621	218	35,743	61.0	92683	861	90,246	95.4
90623	158	15,948	99.1	92688	211	47,986	44.0
90630	483	48,313	100.0	92691	496	47,521	104.4
90631	663	68,833	96.3	92692	448	48,692	92.0
90680	245	31,312	78.2	92694	92	20,000	46.0
90720	233	22,202	104.9	92697	1	806	12.4
90740	623	24,199	257.4	92701	208	58,108	35.8
90742	14	801	174.8	92703	305	73,888	41.3
90743	2	408	49.0	92704	429	91,187	47.0
92602	65	7,860	82.7	92705	327	44,861	72.9
92603	70	12,090	57.9	92706	184	37,028	49.7
92604	140	30,438	46.0	92707	250	65,093	38.4
92606	74	22,223	33.3	92708	660	55,968	117.9
92610	36	14,680	24.5	92780	338	55,466	60.9
92612	156	26,167	59.6	92782	66	20,172	32.7
92614	125	27,163	46.0	92801	513	58,173	88.2
92617	9	12,709	7.1	92802	312	46,438	67.2
92618	74	9,276	79.8	92804	821	89,141	92.1
92620	206	41,485	49.7	92805	369	70,773	52.1
92624	97	7,939	122.2	92806	279	33,932	82.2
92625	152	12,306	123.5	92807	394	34,537	114.1
92626	343	48,466	70.8	92808	116	21,560	53.8
92627	328	63,827	51.4	92821	314	37,125	84.6
92629	328	28,612	114.6	92823	18	2,098	85.8
92630	477	59,520	80.1	92831	262	35,972	72.8
92637	948	16,285	582.1	92832	169	25,861	65.3
92646	567	56,794	99.8	92833	389	50,543	77.0
92647	424	60,355	70.3	92835	293	22,726	128.9
92648	431	46,773	92.1	92840	361	52,449	68.8
92649	350	33,966	103.0	92841	272	31,720	85.8
92651	244	25,064	97.4	92843	288	45,395	63.4
92653	395	32,263	122.4	92844	147	24,687	59.5
92655	81	8,930	90.7	92845	164	15,593	105.2
92656	198	50,569	39.2	92861	49	6,036	81.2
92657	56	7,536	74.3	92862	3	19	1,578.9
92660	305	33,849	90.1	92865	116	18,129	64.0
92661	29	3,882	74.7	92866	129	16,163	79.8
92662	40	2,831	141.3	92867	302	43,612	69.2
92663	173	21,666	79.8	92868	168	24,224	69.4
92672	384	40,477	94.9	92869	249	39,219	63.5
92673	236	22,009	107.2	92870	420	53,282	78.8
92675	370	52,504	70.5	92886	443	44,422	99.7
92676	15	1,824	82.2	92887	115	23,783	48.4
92677	522	65,907	79.2	Unknown	295		
Countywide					24,391	3,062,259	79.7

Source of Population: Claritas 2006

Hospitalizations (2006) Heart Disease Rate by ZIP Code of Residence



The map does not display cases with a PO Box or unknown ZIP Code (1.2% or 295 out of 24,391 Hospitalizations).

Section 7: Emergency Department Visits

Section 7

Emergency Department Visits

Emergency Departments (ED) in Orange County (OC) face significant overcrowding and uncompensated care issues. EDs receive patients from every background, socioeconomic group and health status. By law, EDs are required to provide a medical screening examination to all patients presenting, regardless of the severity (i.e. whether life-threatening or not) of the illness or patient's ability to pay. EDs therefore can become the means to access primary care. Providers are allowed to seek payment only after the patient has been stabilized, including costly hospitalizations for life-threatening illnesses and injuries. Orange County Health Care Agency typically contributes over \$6,000,000 annually through its Emergency Medical Services Fund (EMSF) towards the compensation of ED providers for services to nonpaying patients. Understanding the utilization of EDs is important for establishing prevention strategies and policies for better healthcare access. The purpose of this study is to characterize ED visits within OC facilities as well as by OC residents and to identify the most common causes for these visits.

About the Data:

The data for this section comes from the California Office of Statewide Health Planning and Development (OSHPD) 2006 Emergency Department Visits dataset. This public dataset includes de-identified records of visits to all Orange County hospital emergency departments in addition to all ED visits by Orange County residents to either OC or non-OC facilities. In the dataset the principal diagnosis for a visit is identified using the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM). ICD-9-CM is the official system of assigning codes to diagnoses and procedures associated with hospital utilization in the United States. This classification system uses codes up to 5 digits. The fifth digit level detail is used to provide greater specificity and is intended for recording the information substantiated in the clinical record. The following analysis does not go into that level of detail. The term diagnosis is used below to refer to the 4 digit ICD-9-CM code associated with the visit.

2006 Emergency Department Visits – OC Residents or OC Facilities

The dataset included a total of 647,535 visits to hospital emergency departments in 2006.

- More than half (54%) of all ED visits were to females (n=346,958).
- Age of patients for almost two fifths of all visits (40%) was between 18 and 44 years, with 27% less than 18 years of age, 19% between 45 and 64 years of age, and 14% were 65 or older.

- Whites accounted for 55% of all visits, followed by Hispanic (27%), Asian/Pacific Islanders (6%), and Black (3%). 9% of the visits were to patients of some other or unknown race.
- Orange County residents accounted for 88% (n=566,643) of all visits to OC or non-OC emergency departments.
- 95% (n=613,001) of all ED visits were to an OC emergency department. The remaining 5% (n=34,534) included visits of OC residents to out of county ED facilities.
- Of all patients visiting OC facilities, 87% (n=532,109) were Orange County residents, while 13% (n=80,892) were from outside the County (i.e. non-resident visits).

Emergency Department Visits - OC Residents only (n = 566,643)

- During 2006, Orange County residents made 566,643 visits to hospital emergency departments, about 1,850 visits per 10,000 persons. Females had a higher rate of ED visits (1,987 visits per 10,000 females) than males (1,712 visits per 10,000 males).
- Age group specific crude rates of ED visits for residents were: 65 years of age or older (2,509 visits per 10,000 persons); under 18 years of age (1,934 visits per 10,000 persons); 18 to 44 years of age (1,830 visits per 10,000 persons) and 45 to 64 years of age (1,496 visits per 10,000 persons).
- The average age of residents visiting an ED was 35. The average age of females (37 years) was higher than the average age of males (33 years).
- The racial/ethnic distribution of all resident visits was: 54% White, 29% Hispanic, 6% Asian/Pacific Islander, 2% Black and 9% of the visits were some other or unknown race.
- Health Maintenance Organizations (HMO) were the largest expected source of payment (31%) followed by Medi-Cal (15%), Self Pay (14%), HMO Medicare Risk (6%), Preferred Provider Organizations (6%), Blue Cross/Blue Shield (6%) and Medicare Part A (5%), accounting for more than 80% of the visits.
- The top five OC hospitals accounting for one third of all visits were: Hoag Memorial Hospital Presbyterian (8%; n=43,771), St. Joseph Hospital-Orange (7%; n=38,159), Children's Hospital of Orange County (6%; n=33,871), Anaheim Memorial Medical Center (6%; n=32,992) and St. Jude Medical Center (6%; n=30,956).
- One fourth of the 34,534 visits of OC residents to non-OC hospital EDs occurred at 4 hospitals: Kaiser Foundation-Bellflower (7%; n=2,454), Long Beach Memorial Medical Center (6%; n=2,179), Presbyterian Intercommunity Hospital (6%; n=2,148) and Whittier Hospital Medical Center (6%; n=2,107).

Emergency Department Visits - OC Facilities only (n = 613,001)

- Females represented more than half (54%; n=330,215) of all patients who visited an Orange County ED during 2006.
- The average age of patients was 35. The average age of females was higher (37 years) than males (33 years).
- Overall, the top two racial/ethnic groups represented were White (55%; n=336,749) and Hispanic (28%; n=170,304) followed by Asian/Pacific Islander (6%), Black (3%) and 8% were some other or unknown race.
- Health Maintenance Organizations were the major source of payments (31%; n=190,521), followed by Medi-Cal (15%; n=90,600) and Self Pay (14%; n=87,683).
- Almost 40% of all visits occurred at six OC hospitals: Hoag Memorial Hospital Presbyterian (8%; n=49,917), St. Joseph Hospital – Orange (7%; n=42,828), St. Jude Medical Center (6%; n=39,311), Children's Hospital of Orange County (6%; n=37,127), Anaheim Memorial Medical Center (6%; n=36,122) and Kaiser Foundation Hospital-Anaheim (6%; n=34,520).
- Among non-OC patients, Los Alamitos Medical Center (12%; n=9,514) followed by St. Jude Medical Center (10%; n=8,355), Kaiser Foundation Hospital Anaheim (8%; n=6,733), Hoag Memorial Hospital Presbyterian (8%; n=6,146), La Palma Intercommunity Hospital (7%; n=5,789) and St. Joseph Hospital – Orange (6%; n=4,669) accounted for more than half of the non-resident visits.

Highlights

About a quarter (26.5%) of all ED visits were injury related (ICD-9-CM codes 800-999; n=171,676), while 21.9% were related to symptoms that could not be assigned to a single disease or a system of the body (ICD-9-CM codes 780-799, n=142,350). 47.7% were related to specific diseases or systems of the body (ICD-9-CM codes 001-779; n=309,155). V Codes accounted for the remaining 3.8% of the visits that were for circumstances other than a disease or injury (codes V01-V82; n=24,354). ICD-9-CM uses V codes to classify factors influencing health status and contact with health services, typically for some follow-up care (see below).

The most common V code diagnoses, accounting for 60% of all V code related visits were: “Encounter for attention to surgical dressings and sutures” (code V58.3; n=4,939; 20% of all V code visits), “Encounter for a referral of patient without examination or treatment or other specified administrative purpose” (code V68.8; n=4,119; 16.9% of all V code visits), “Follow-up examination following treatment with high risk medication or other treatment” (code V67.5; n=2,976; 12% of all V code visits) and “Encounter for fitting and adjustment of vascular or

nonvascular catheter or other specified aftercare” (code V58.8; n=2,551; 10.5% of all V code visits).

V code related ED visits are not included in the tables listing top 20 diagnoses, but are included in the maps displaying the geographic distribution of ED visits.

Leading Diagnoses: The most common diagnoses for emergency visits were “Abdominal Pain” (code 789.0; n = 32,422) and “Chest Pain” (code 786.5; n = 22,489). These were the top two diagnoses of visits across all ages and genders *except* for patients below 18 years of age. For children, the top diagnosis was “Acute upper respiratory infections of unspecified sites” (code 465.9; n=9,863), followed by “Otitis media, unspecified” (code 382.9; n=9,685).

Among all OC residents, the countywide crude rate of “Abdominal Pain” related visits (n=28,783) was 94 visits per 10,000 of the OC population and for “Chest Pain” related visits (n=19,704), the crude rate was 64 visits per 10,000 of the population. For patients under 18 years of age, the crude rate for visits related to “Acute upper respiratory infections of unspecified sites” was 111 visits per 10,000 residents below 18 years of age (n=8,987), and for visits related to “Otitis media, unspecified” it was 106 visits per 10,000 residents below 18 years of age (n=8,585).

Other symptoms for ED visits varied between different groups: For males, the third prevalent symptom was “Open wound of face without mention of complication” (code 873.4), while for females it was “Urinary tract infection of unspecified site” (code 599.0). For the age group 0 to 17, “Fever” (code 780.6) was the third prevalent diagnosis. For age groups 18-44 and 45-64, it was “Headache” (code 784.0), while for the age group 65 and older it was “Urinary tract infection of unspecified site” (code 599.0).

Disposition: The majority of all patients visiting EDs were discharged to home or self care (93%, n=602,787). About 2.7% (n=17,211) were discharged to a medical facility, including short term general care or other types of hospitals, skilled nursing facilities or hospice care units. The most prevalent diagnosis for the patients discharged to a medical facility was “Chest Pain” (code 786.5, n=1,009), followed by “Depressive Disorder-not elsewhere classified” (code 311, n=650), “Unspecified Psychosis” (code 298.9, n=587), “Pneumonia-organism unspecified” (code 486, n=573), “Abdominal Pain” (code 789.0, n=552), “Syncope and Collapse” (code 780.2, n=443). About 2% (n=12,597) of patients left or discontinued care against medical advice. The remaining 2% of the visits included deaths (n=1,334), patients discharged home under the care of home health service organization or home with hospice care, other or unknown.

Tables and Maps:

The tables below indicating the top 20 diagnoses for all ED visits, visits by age group, and visits by gender are ranked based on the percentage of total ED visits within each category. The tables and maps depicting the distribution of all ED visits, visits by age group, and visits by gender are provided. The remaining tables and maps represent the most prevalent diagnoses for ED visits, specifically, “Abdominal Pain” and “Chest Pain,” which were the top 2 diagnoses across all age groups and gender, *except* for patients below 18 years of age, who were most often diagnosed

with “Acute upper respiratory infections of unspecified sites” and “Otitis media, unspecified”. The tables and corresponding maps use crude rates per 10,000 of the ZIP code population. For each indicator, the countywide rate is provided. Because the rates in ZIP codes with small populations are unstable, rates should be interpreted with caution.

In almost all categories for which ZIP code rates were calculated, patients from ZIP codes in the central and northern parts of the county had higher rates of ED visits compared to the countywide rate. Specifically, for acute upper respiratory infection related ED visits for children, 6 ZIP codes (4 in Santa Ana and 2 in Garden Grove) accounted for a quarter of all visits in this category (crude rates ranged from 188.6 to 249.9 visits per 10,000 children). The countywide crude rate for this diagnosis was 111 visits per 10,000 children.

For the second most common diagnosis of ED visits among children, otitis media (ear infections), 12 ZIP codes (4 in Santa Ana, 5 in Anaheim, 2 in Fullerton, and 1 in Brea) accounted for nearly 40% of all visits in this category (crude rates ranged from 150.2 to 215.2 visits per 10,000 children). The countywide rate was 106 visits per 10,000 children. Because both these conditions are likely treatable in a primary care setting, a more detailed analysis of the other circumstances such as the source of payment and disposition is needed. Additional analyses of ED usage are planned in future studies.

Tables: Top 20 Diagnoses for Emergency Department Visits

- 7.1: All Ages
- 7.2: Ages 0 -17 Years
- 7.3: Ages 18 - 44 Years
- 7.4: Ages 45 - 64 Years
- 7.5: Ages 65+ Years
- 7.6: Males
- 7.7: Females

Tables/Maps: Emergency Department Visits - Rate by ZIP Code of Residence

- 7.8: All Ages
- 7.9: Ages 0 -17 Years
- 7.10: Ages 18 - 44 Years
- 7.11: Ages 45 - 64 Years
- 7.12: Ages 65+ Years
- 7.13: Males
- 7.14: Females
- 7.15: Abdominal Pain - All Ages
- 7.16: Chest Pain related Visits - All Ages
- 7.17: Acute Upper Respiratory Infection of unspecified sites - Ages 0 to 17 Years
- 7.18: Otitis Media, unspecified - Ages 0 to 17 Years

Table 7.1
Emergency Department Visits (2006)
Top 20 Diagnoses (All Ages)

Rank	Description	Frequency	Percent
1	Abdominal pain (789.0)	32,422	5.0
2	Chest pain (786.5)	22,489	3.5
3	Open wound of face, without mention of complication (873.4)	12,761	2.0
4	Acute upper respiratory infections of unspecified sites (465.9)	12,255	1.9
5	Otitis media, unspecified (382.9)	11,415	1.8
6	Nausea and vomiting (787.0)	11,260	1.7
7	Noninfectious gastroenteritis and colitis, other and unspecified (558.9)	10,761	1.7
8	Headache (784.0)	10,635	1.6
9	Urinary tract infection, site not specified (599.0)	10,600	1.6
10	Fever (780.6)	9,893	1.5
11	Acute pharyngitis (462)	8,915	1.4
12	Open wound of finger(s) without mention of complication (883.0)	8,398	1.3
13	Asthma, unspecified (493.9)	7,709	1.2
14	Contusion of face, scalp, and neck except eye(s) (920)	7,171	1.1
15	Sprains and strains of neck (847.0)	7,046	1.1
16	Disorders of Back - Lumbago (724.2)	6,911	1.1
17	Syncope and collapse (780.2)	6,297	1.0
18	Migraine, unspecified (346.9)	6,109	0.9
19	Sprains and strains of ankle (845.0)	6,092	0.9
20	Dizziness and giddiness (780.4)	5,931	0.9
	Total Top 20 Diagnoses	215,070	33.2
	Emergency Visits with V Codes	24,354	3.8
	All Other Emergency Department Visits	408,111	63.0
	Total	647,535	100.0

Table 7.2
Emergency Department Visits (2006)
Top 20 Diagnoses - 0 to 17 Years

Rank	Description	Frequency	Percent
1	Acute upper respiratory infections of unspecified sites (465.9)	9,863	5.6
2	Otitis media, unspecified (382.9)	9,685	5.5
3	Fever (780.6)	7,944	4.5
4	Open wound of face, without mention of complication (873.4)	7,136	4.1
5	Abdominal pain (789.0)	6,101	3.5
6	Noninfectious gastroenteritis and colitis, other and unspecified (558.9)	5,389	3.1
7	Nausea and vomiting (787.0)	5,176	3.0
8	Acute pharyngitis (46.2)	4,582	2.6
9	Viral and chlamydial infections, unspecified (79.9)	3,731	2.1
10	Contusion of face, scalp, and neck except eye(s) (92.0)	3,447	2.0
11	Asthma, unspecified (493.9)	3,228	1.8
12	Fracture of radius and ulna - Lower end, closed (813.4)	2,785	1.6
13	Injury of head or face and neck (959.0)	2,622	1.5
14	Bronchitis, not specified as acute or chronic (49.0)	2,299	1.3
15	Acute laryngitis and tracheitis - Croup (464.4)	2,274	1.3
16	Open wound of Scalp, without mention of complication (873.0)	2,271	1.3
17	Urinary tract infection, site not specified (599.0)	2,084	1.2
18	Convulsions (780.3)	2,030	1.2
19	Pneumonia, organism unspecified (48.6)	1,938	1.1
20	Sprains and strains of ankle (845.0)	1,922	1.1
	Total Top 20 Diagnoses	86,507	49.4
	Emergency Visits with V Codes	6,020	3.4
	All Other Emergency Department Visits	82,584	47.2
	Total	175,111	100.0

Table 7.3
Emergency Department Visits (2006)
Top 20 Diagnoses - 18 to 44 Years

Rank	Description	Frequency	Percent
1	Abdominal pain (789.0)	15,887	6.2
2	Chest pain (786.5)	9,053	3.5
3	Headache (784.0)	5,643	2.2
4	Current conditions complicating pregnancy, childbirth, or the puerperium classifiable to Diseases of Circulatory System and Nutritional Deficiencies (648.9)	4,407	1.7
5	Open wound of finger(s) without mention of complication (883.0)	4,338	1.7
6	Threatened abortion (640.0)	4,279	1.7
7	Urinary tract infection, site not specified (599.0)	4,127	1.6
8	Sprains and strains of Neck (847.0)	4,096	1.6
9	Migraine, unspecified (346.9)	3,913	1.5
10	Disorders of Back - Lumbago (724.2)	3,538	1.4
11	Acute pharyngitis (46.2)	3,516	1.4
12	Neurotic Disorders - Anxiety states (300.0)	3,326	1.3
13	Nausea and vomiting (787.0)	3,219	1.3
14	Noninfectious gastroenteritis and colitis, other and unspecified (558.9)	3,213	1.3
15	Open wound of face, without mention of complication (873.4)	3,178	1.2
16	Sprains and strains of ankle (845.0)	2,933	1.1
17	Asthma, unspecified (493.9)	2,712	1.1
18	Sprains and strains of back - Lumbar (847.2)	2,398	0.9
19	Cellulitis and abscess of Leg, except foot (682.6)	2,231	0.9
20	Alcohol abuse (305.0)	2,141	0.8
	Total Top 20 Diagnoses	88,148	34.3
	Emergency Visits with V Codes	11,151	4.3
	All Other Emergency Department Visits	157,621	61.4
	Total	256,920	100.0

Table 7.4
Emergency Department Visits (2006)
Top 20 Diagnoses - 45 to 64 Years

Rank	Description	Frequency	Percent
1	Chest pain (786.5)	7,739	6.2
2	Abdominal pain (789.0)	6,922	5.5
3	Headache (784.0)	2,699	2.1
4	Disorders of Back - Lumbago	2,357	1.9
5	Dizziness and giddiness (724.2)	1,908	1.5
6	Open wound of finger(s) without mention of complication (883.0)	1,893	1.5
7	Migraine, unspecified (346.9)	1,876	1.5
8	Urinary tract infection, site not specified (599.0)	1,794	1.4
9	Disorders of joint - Pain in joint (719.4)	1,727	1.4
10	Sprains and strains of Neck (847.0)	1,636	1.3
11	Nausea and vomiting (787.0)	1,500	1.2
12	Disorders of soft tissues - Pain in limb (729.5)	1,415	1.1
13	Calculus of ureter (592.1)	1,375	1.1
14	Syncope and collapse (780.2)	1,341	1.1
15	Asthma, unspecified (493.9)	1,309	1.0
16	Backache, unspecified (724.5)	1,300	1.0
17	Noninfectious gastroenteritis and colitis, other and unspecified (558.9)	1,280	1.0
18	Neurotic Disorders - Anxiety states (300.0)	1,271	1.0
19	Essential hypertension, Unspecified (401.9)	1,213	1.0
20	Sprains and strains of back - Lumbar (847.2)	1,202	1.0
	Total Top 20 Diagnoses	43,757	34.8
	Emergency Visits with V Codes	4,682	3.7
	All Other Emergency Department Visits	77,195	61.4
	Total	125,634	100.0

Table 7.5
Emergency Department Visits (2006)
Top 20 Diagnoses - 65+ Years

Rank	Description	Frequency	Percent
1	Chest pain (786.5)	4,544	5.1
2	Abdominal pain (789.0)	3,512	3.9
3	Urinary tract infection, site not specified (599.0)	2,595	2.9
4	Syncope and collapse (780.2)	2,165	2.4
5	Dizziness and giddiness (780.4)	2,056	2.3
6	Malaise and fatigue (780.7)	2,055	2.3
7	Essential hypertension, Unspecified (401.9)	1,584	1.8
8	Nausea and vomiting (787.0)	1,365	1.5
9	Open wound of face, without mention of complication (873.4)	1,326	1.5
10	Retention of urine (788.2)	1,282	1.4
11	Dyspnea and respiratory abnormalities (786.0)	1,214	1.4
12	Contusion of face, scalp, and neck except eye(s) (92.0)	1,163	1.3
13	Epistaxis - Hemorrhage from nose, Nosebleed (784.7)	1,116	1.2
14	Disorders of joint - Pain in joint (719.4)	1,099	1.2
15	Pneumonia, organism unspecified (48.6)	1,067	1.2
16	Headache (784.0)	1,019	1.1
17	Congestive heart failure, unspecified (428.0)	946	1.1
18	Functional digestive disorders - Constipation (564.0)	905	1.0
19	Injury of head or face and neck (959.0)	902	1.0
20	Open wound of Scalp, without mention of complication (873.0)	891	1.0
	Total Top 20 Diagnoses	32,806	36.5
	Emergency Visits with V Codes	2,501	2.8
	All Other Emergency Department Visits	54,563	60.7
	Total	89,870	100.0

Table 7.6
Emergency Department Visits (2006)
Top 20 Diagnoses - Males

Rank	Description	Frequency	Percent
1	Abdominal pain (789.0)	11,640	3.9
2	Chest pain (786.5)	10,241	3.4
3	Open wound of face, without mention of complication (873.4)	8,410	2.8
4	Otitis media, unspecified (382.9)	6,081	2.0
5	Acute upper respiratory infections of unspecified sites (465.9)	6,062	2.0
6	Open wound of finger(s) without mention of complication (883.0)	5,180	1.7
7	Fever (780.6)	5,172	1.7
8	Noninfectious gastroenteritis and colitis, other and unspecified (558.9)	4,922	1.6
9	Nausea and vomiting (787.0)	4,804	1.6
10	Acute pharyngitis (462)	4,215	1.4
11	Contusion of face, scalp, and neck except eye(s) (920)	3,554	1.2
12	Asthma, unspecified (493.9)	3,522	1.2
13	Open wound of Scalp, without mention of complication (873.0)	3,477	1.2
14	Disorders of Back - Lumbago (724.2)	3,365	1.1
15	Headache (784.0)	3,269	1.1
16	Sprains and strains of ankle (845.0)	2,885	1.0
17	Injury of head or face and neck (959.0)	2,877	1.0
18	Convulsions (780.3)	2,836	0.9
19	Sprains and strains of Neck (847.0)	2,783	0.9
20	Viral and chlamydial infections, Unspecified (079.9)	2,605	0.9
	Total Top 20 Diagnoses	97,900	32.6
	Emergency Visits with V Codes	13,343	4.4
	All Other Emergency Department Visits	189,312	63.0
	Total	300,555	100.0

Table 7.7
Emergency Department Visits (2006)
Top 20 Diagnoses - Females

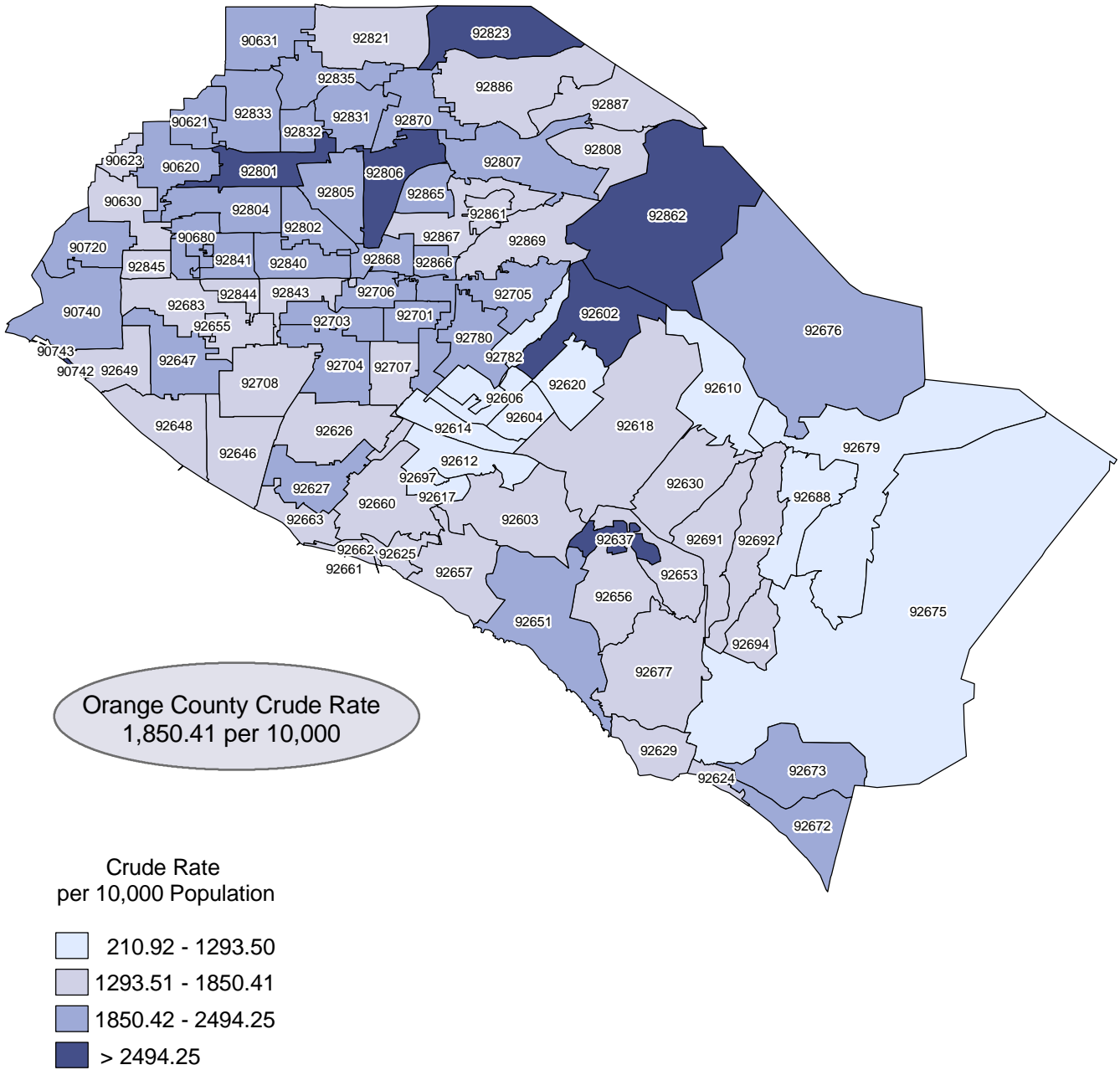
Rank	Description	Frequency	Percent
1	Abdominal pain (789.0)	20,782	6.0
2	Chest pain (786.5)	12,248	3.5
3	Urinary tract infection, site not specified (599.0)	8,809	2.5
4	Headache (784.0)	7,366	2.1
5	Nausea and vomiting (787.0)	6,454	1.9
6	Acute upper respiratory infections of unspecified sites (465.9)	6,193	1.8
7	Noninfectious gastroenteritis and colitis, other and unspecified (558.9)	5,839	1.7
8	Otitis media, unspecified (382.9)	5,334	1.5
9	Migraine, unspecified (346.9)	5,079	1.5
10	Fever (780.6)	4,721	1.4
11	Acute pharyngitis (46.2)	4,700	1.4
12	Current conditions complicating pregnancy, childbirth, or the puerperium classifiable to Diseases of Circulatory System and Nutritional Deficiencies (648.9)	4,656	1.3
13	Threatened abortion (640.0)	4,457	1.3
14	Open wound of face, without mention of complication (873.4)	4,349	1.3
15	Sprains and strains of Neck (847.0)	4,263	1.2
16	Asthma, unspecified (493.9)	4,187	1.2
17	Syncope and collapse (780.2)	3,710	1.1
18	Contusion of face, scalp, and neck except eye(s) (92.0)	3,616	1.0
19	Dizziness and giddiness (780.4)	3,605	1.0
20	Disorders of Back - Lumbago (724.2)	3,546	1.0
	Total Top 20 Diagnoses	123,914	35.7
	Emergency Visits with V Codes	11,006	3.2
	All Other Emergency Department Visits	212,038	61.1
	Total	346,958	100.0

Table 7.8
Orange County Emergency Department Visits Data 2006 (All Ages)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	10,605	44,880	2,362.97	92679	3,656	36,741	995.07
90621	7,692	35,743	2,152.03	92683	14,527	90,246	1,609.71
90623	2,500	15,948	1,567.59	92688	6,207	47,986	1,293.50
90630	8,604	48,313	1,780.89	92691	8,002	47,521	1,683.89
90631	14,172	68,833	2,058.90	92692	6,724	48,692	1,380.92
90680	7,397	31,312	2,362.35	92694	2,723	20,000	1,361.50
90720	4,164	22,202	1,875.51	92697	17	806	210.92
90740	4,644	24,199	1,919.09	92701	12,475	58,108	2,146.86
90742	215	801	2,684.14	92703	14,678	73,888	1,986.52
90743	63	408	1,544.12	92704	17,127	91,187	1,878.23
92602	1,986	7,860	2,526.72	92705	8,359	44,861	1,863.31
92603	1,837	12,090	1,519.44	92706	7,978	37,028	2,154.59
92604	3,489	30,438	1,146.26	92707	11,905	65,093	1,828.92
92606	2,559	22,223	1,151.51	92708	9,133	55,968	1,631.83
92610	1,340	14,680	912.81	92780	10,674	55,466	1,924.42
92612	3,246	26,167	1,240.49	92782	2,333	20,172	1,156.55
92614	2,819	27,163	1,037.81	92801	17,630	58,173	3,030.62
92617	640	12,709	503.58	92802	10,019	46,438	2,157.50
92618	1,466	9,276	1,580.42	92804	22,234	89,141	2,494.25
92620	3,686	41,485	888.51	92805	17,195	70,773	2,429.60
92624	1,448	7,939	1,823.91	92806	8,603	33,932	2,535.36
92625	1,820	12,306	1,478.95	92807	6,727	34,537	1,947.77
92626	8,766	48,466	1,808.69	92808	2,962	21,560	1,373.84
92627	12,796	63,827	2,004.79	92821	6,164	37,125	1,660.34
92629	5,082	28,612	1,776.18	92823	534	2,098	2,545.28
92630	9,958	59,520	1,673.05	92831	7,153	35,972	1,988.49
92637	4,305	16,285	2,643.54	92832	6,270	25,861	2,424.50
92646	9,611	56,794	1,692.26	92833	9,870	50,543	1,952.79
92647	11,202	60,355	1,856.02	92835	4,357	22,726	1,917.19
92648	8,046	46,773	1,720.22	92840	11,642	52,449	2,219.68
92649	5,072	33,966	1,493.26	92841	6,120	31,720	1,929.38
92651	4,705	25,064	1,877.19	92843	8,124	45,395	1,789.62
92653	5,840	32,263	1,810.12	92844	3,638	24,687	1,473.65
92655	1,594	8,930	1,784.99	92845	2,683	15,593	1,720.64
92656	7,033	50,569	1,390.77	92861	921	6,036	1,525.84
92657	1,084	7,536	1,438.43	92862	64	19	33,684.21
92660	4,769	33,849	1,408.90	92865	3,769	18,129	2,078.99
92661	642	3,882	1,653.79	92866	3,445	16,163	2,131.41
92662	435	2,831	1,536.56	92867	8,065	43,612	1,849.26
92663	3,955	21,666	1,825.44	92868	5,876	24,224	2,425.69
92672	7,791	40,477	1,924.80	92869	6,988	39,219	1,781.79
92673	4,516	22,009	2,051.89	92870	10,666	53,282	2,001.80
92675	6,356	52,504	1,210.57	92886	7,980	44,422	1,796.41
92676	343	1,824	1,880.48	92887	3,326	23,783	1,398.48
92677	9,782	65,907	1,484.21	Unknown	7,025		
Countywide					566,643	3,062,259	1,850.41

Source of Population: Claritas 2006

Emergency Department Visits (2006) Rate by ZIP Code of Residence



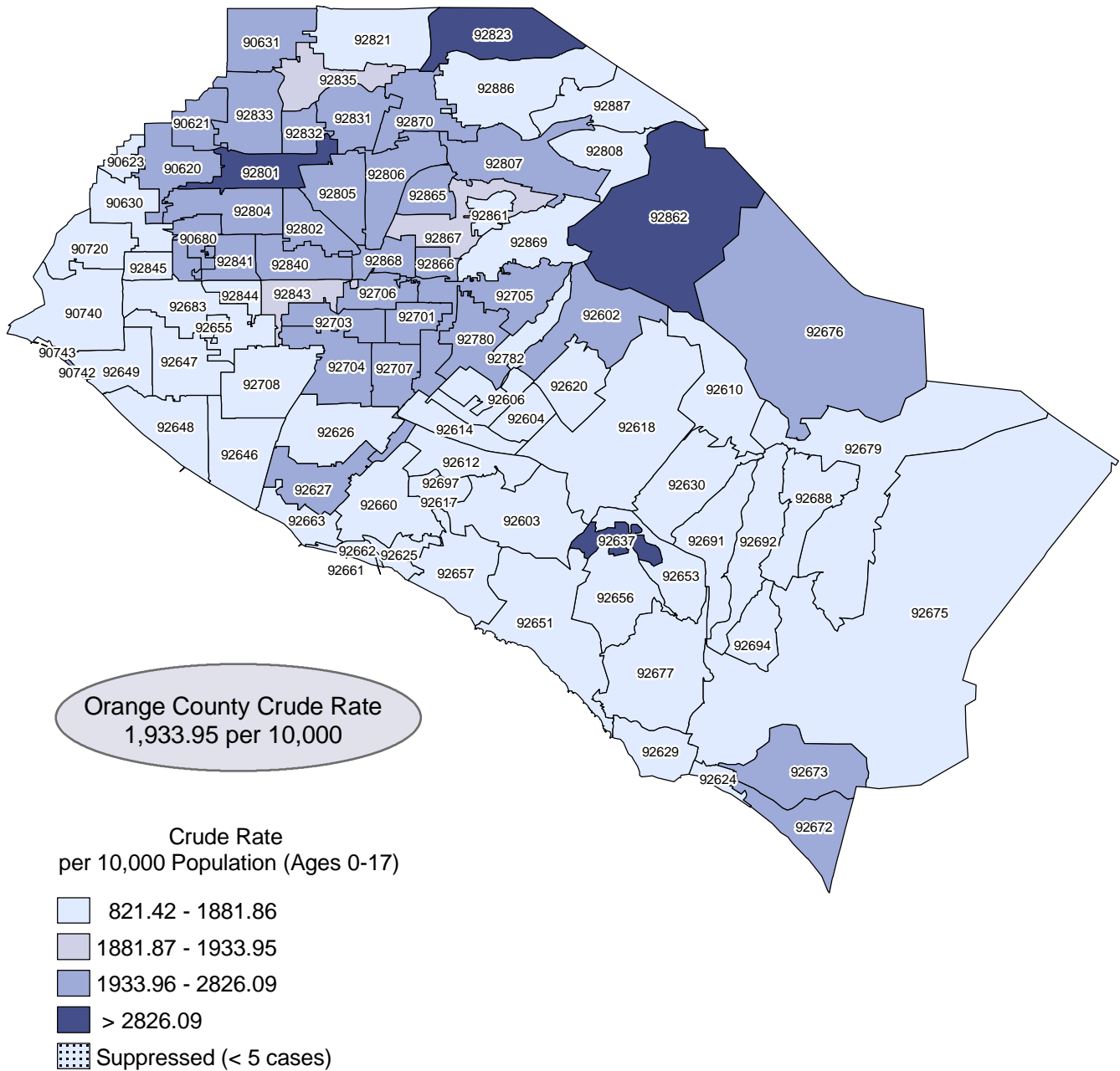
The map does not display cases with a P.O. Box or unknown ZIP Code (1.2%; 7,025 out of 566,643 cases).
 Quality Management, Orange County Health Care Agency, 2008
 Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

Table 7.9
Orange County Emergency Department Visits Data 2006 (0 - 17 Yrs)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population of 0-17 Yrs	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population of 0-17 Yrs	Crude Rate (Per 10,000)
90620	2,798	11,820	2,367.17	92679	1,249	12,799	975.86
90621	2,593	11,105	2,334.98	92683	3,810	23,618	1,613.18
90623	584	3,468	1,683.97	92688	1,995	15,845	1,259.07
90630	2,187	11,974	1,826.46	92691	1,961	12,065	1,625.36
90631	4,080	19,359	2,107.55	92692	1,665	13,036	1,277.23
90680	2,244	9,265	2,422.02	92694	1,011	6,595	1,532.91
90720	938	5,177	1,811.86	92697	2	36	555.56
90740	498	2,993	1,663.88	92701	5,023	21,162	2,373.59
90742	26	92	2,826.09	92703	5,776	24,298	2,377.15
90743	13	79	1,645.57	92704	6,625	28,988	2,285.43
92602	592	2,470	2,396.76	92705	2,438	12,460	1,956.66
92603	467	2,695	1,732.84	92706	2,893	12,142	2,382.64
92604	772	7,178	1,075.51	92707	4,535	21,232	2,135.93
92606	615	5,548	1,108.51	92708	1,876	12,616	1,487.00
92610	452	4,896	923.20	92780	3,302	15,716	2,101.04
92612	531	3,974	1,336.19	92782	669	5,022	1,332.14
92614	685	6,488	1,055.80	92801	5,563	18,159	3,063.49
92617	121	1,131	1,069.85	92802	3,433	14,775	2,323.52
92618	325	1,739	1,868.89	92804	6,608	25,892	2,552.14
92620	931	11,334	821.42	92805	6,284	23,980	2,620.52
92624	289	1,737	1,663.79	92806	2,585	9,511	2,717.91
92625	234	1,765	1,325.78	92807	1,605	7,850	2,044.59
92626	1,821	9,963	1,827.76	92808	829	6,156	1,346.65
92627	3,221	16,643	1,935.35	92821	1,395	8,872	1,572.36
92629	934	5,608	1,665.48	92823	150	472	3,177.97
92630	2,783	15,388	1,808.55	92831	1,738	7,672	2,265.38
92637	21	36	5,833.33	92832	1,901	7,299	2,604.47
92646	1,852	12,298	1,505.94	92833	2,902	13,564	2,139.49
92647	2,890	15,405	1,876.01	92835	929	4,827	1,924.59
92648	1,380	9,117	1,513.66	92840	3,555	14,408	2,467.38
92649	958	6,567	1,458.81	92841	1,710	8,557	1,998.36
92651	771	4,097	1,881.86	92843	2,648	13,887	1,906.82
92653	1,276	8,028	1,589.44	92844	1,081	6,866	1,574.42
92655	386	2,444	1,579.38	92845	580	3,777	1,535.61
92656	1,924	13,981	1,376.15	92861	207	1,274	1,624.80
92657	279	1,934	1,442.61	92862	19	9	21,111.11
92660	870	6,896	1,261.60	92865	989	4,873	2,029.55
92661	77	467	1,648.82	92866	844	4,293	1,965.99
92662	38	280	1,357.14	92867	2,307	12,050	1,914.52
92663	509	2,815	1,808.17	92868	1,670	6,337	2,635.32
92672	1,774	8,961	1,979.69	92869	1,831	10,166	1,801.10
92673	1,338	6,217	2,152.16	92870	3,089	13,858	2,229.04
92675	1,804	13,711	1,315.73	92886	1,983	11,096	1,787.13
92676	72	359	2,005.57	92887	917	6,905	1,328.02
92677	2,335	17,339	1,346.68	Unknown	1,152		
Countywide					156,622	809,856	1,933.95

Source of Population: Claritas 2006

Emergency Department Visits (2006) Ages 0 - 17 Years Rate by ZIP Code of Residence



The map does not display cases with a P.O. Box or unknown ZIP Code (< 1%; 1,152 out of 156,622 cases).

Quality Management, Orange County Health Care Agency, 2008

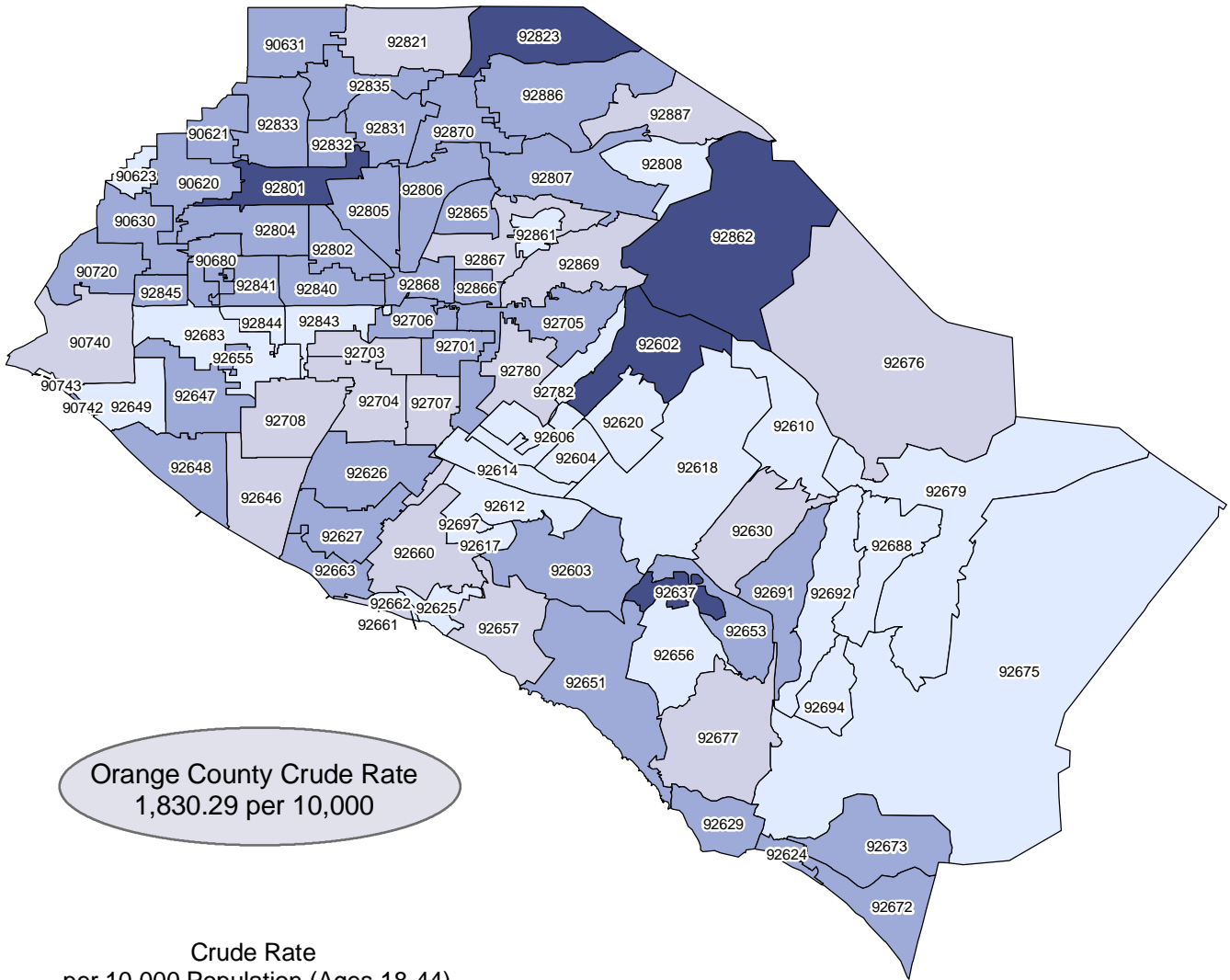
Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

Table 7.10
Orange County Emergency Department Visits Data 2006 (18 - 44 Yrs)
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population of 18-44 Yrs	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population of 18-44 Yrs	Crude Rate (Per 10,000)
90620	4,092	16,792	2,436.87	92679	1,315	12,604	1,043.32
90621	3,212	15,078	2,130.26	92683	5,228	35,089	1,489.93
90623	865	5,669	1,525.84	92688	2,715	20,637	1,315.60
90630	3,241	17,322	1,871.03	92691	3,089	16,330	1,891.61
90631	5,282	26,470	1,995.47	92692	2,369	15,699	1,509.01
90680	3,011	12,776	2,356.76	92694	1,264	9,315	1,356.98
90720	1,578	7,126	2,214.43	92697	13	749	173.56
90740	877	5,494	1,596.29	92701	4,916	26,656	1,844.24
90742	67	340	1,970.59	92703	5,744	33,864	1,696.20
90743	24	138	1,739.13	92704	6,763	40,244	1,680.50
92602	977	3,561	2,743.61	92705	3,063	16,106	1,901.78
92603	751	3,683	2,039.10	92706	2,990	15,472	1,932.52
92604	1,267	10,626	1,192.36	92707	4,894	29,355	1,667.18
92606	1,169	9,938	1,176.29	92708	3,246	19,708	1,647.05
92610	602	6,277	959.06	92780	4,170	22,927	1,818.82
92612	1,368	12,647	1,081.68	92782	985	8,977	1,097.25
92614	1,146	11,077	1,034.58	92801	7,194	24,277	2,963.30
92617	453	10,426	434.49	92802	4,142	19,746	2,097.64
92618	665	4,904	1,356.04	92804	9,035	36,345	2,485.90
92620	1,368	15,096	906.20	92805	6,832	31,097	2,197.00
92624	605	2,662	2,272.73	92806	3,395	14,470	2,346.23
92625	522	3,953	1,320.52	92807	2,349	11,593	2,026.22
92626	4,026	21,807	1,846.20	92808	1,110	8,538	1,300.07
92627	5,602	29,490	1,899.63	92821	2,308	13,800	1,672.46
92629	1,933	9,969	1,939.01	92823	214	559	3,828.26
92630	3,883	22,389	1,734.33	92831	3,206	17,301	1,853.07
92637	81	221	3,665.16	92832	2,683	11,302	2,373.92
92646	3,609	19,970	1,807.21	92833	3,937	18,992	2,072.98
92647	4,987	25,390	1,964.16	92835	1,426	7,281	1,958.52
92648	3,714	20,098	1,847.95	92840	4,556	21,197	2,149.36
92649	1,907	12,469	1,529.39	92841	2,272	12,288	1,848.96
92651	1,715	7,810	2,195.90	92843	2,883	18,876	1,527.34
92653	2,007	10,599	1,893.57	92844	1,436	10,079	1,424.74
92655	687	3,609	1,903.57	92845	1,092	5,188	2,104.86
92656	3,305	23,296	1,418.70	92861	236	1,611	1,464.93
92657	416	2,465	1,687.63	92862	22	7	31,428.57
92660	1,587	9,736	1,630.03	92865	1,482	6,892	2,150.32
92661	280	1,705	1,642.23	92866	1,374	6,876	1,998.25
92662	97	893	1,086.23	92867	3,049	16,850	1,809.50
92663	1,838	9,945	1,848.16	92868	2,432	10,878	2,235.71
92672	3,171	14,938	2,122.77	92869	2,627	14,754	1,780.53
92673	1,560	6,927	2,252.06	92870	3,843	20,979	1,831.83
92675	2,098	16,303	1,286.88	92886	2,685	14,371	1,868.35
92676	112	625	1,792.00	92887	1,305	8,122	1,606.75
92677	3,707	22,584	1,641.43	Unknown	2,885		
				Countywide	220,238	1,203,294	1,830.29

Source of Population: Claritas 2006

Emergency Department Visits (2006) Ages 18 - 44 Years Rate by ZIP Code of Residence



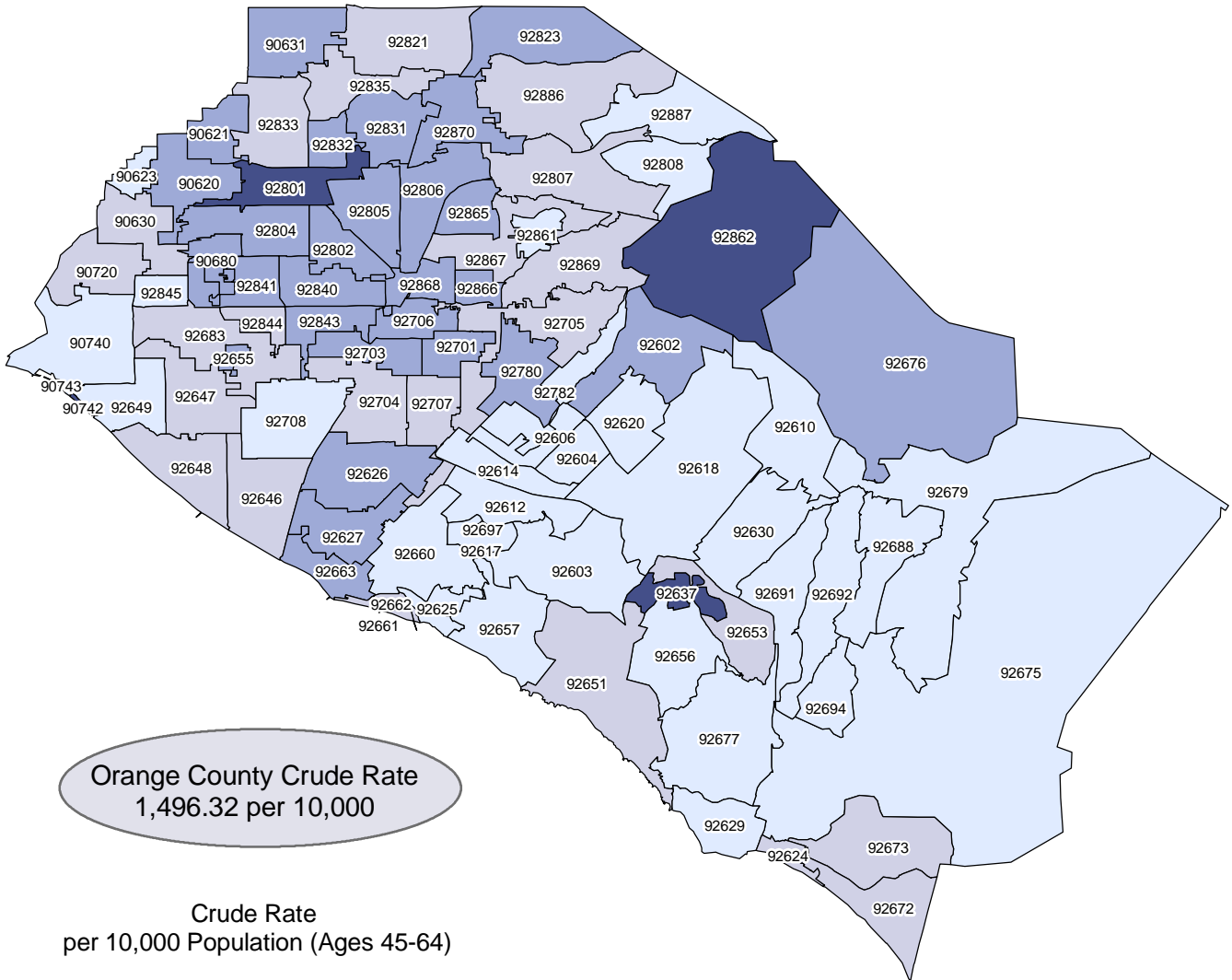
The map does not display cases with a P.O. Box or unknown ZIP Code (1.3%; 2,885 out of 220,238 cases).
 Quality Management, Orange County Health Care Agency, 2008
 Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

**Table 7.11
Orange County Emergency Department Visits Data 2006 (45 - 64 Yrs)
Rate by ZIP Code of Residence**

ZIP Code	Number of Visits 2006	2006 Population of 45-64 Yrs	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population of 45-64 Yrs	Crude Rate (Per 10,000)
90620	2,324	10,868	2,138.39	92679	844	9,714	868.85
90621	1,256	7,001	1,794.03	92683	3,096	20,900	1,481.34
90623	565	4,791	1,179.29	92688	999	9,651	1,035.13
90630	1,912	13,236	1,444.55	92691	1,665	13,725	1,213.11
90631	2,611	15,164	1,721.84	92692	1,372	13,140	1,044.14
90680	1,308	5,938	2,202.76	92694	293	3,779	775.25
90720	830	6,150	1,349.59	92697	2	19	1,052.63
90740	721	5,847	1,233.11	92701	1,742	7,834	2,223.64
90742	77	267	2,883.90	92703	2,065	11,702	1,764.66
90743	19	148	1,283.78	92704	2,379	16,236	1,465.26
92602	291	1,518	1,917.00	92705	1,432	10,545	1,357.99
92603	380	4,398	864.03	92706	1,162	6,325	1,837.15
92604	785	9,273	846.54	92707	1,608	11,029	1,457.97
92606	536	5,402	992.23	92708	2,025	16,358	1,237.93
92610	210	3,039	691.02	92780	1,901	11,748	1,618.15
92612	699	6,455	1,082.88	92782	429	4,946	867.37
92614	587	7,788	753.72	92801	3,004	10,562	2,844.16
92617	45	950	473.68	92802	1,575	8,173	1,927.08
92618	255	2,127	1,198.87	92804	4,266	17,925	2,379.92
92620	823	11,935	689.57	92805	2,760	11,616	2,376.03
92624	326	2,371	1,374.95	92806	1,699	6,844	2,482.47
92625	360	3,961	908.86	92807	1,644	11,011	1,493.05
92626	1,745	11,390	1,532.05	92808	666	5,579	1,193.76
92627	2,625	13,077	2,007.34	92821	1,354	10,008	1,352.92
92629	1,155	8,968	1,287.91	92823	117	725	1,613.79
92630	1,981	15,731	1,259.30	92831	1,254	7,338	1,708.91
92637	466	1,164	4,003.44	92832	952	4,866	1,956.43
92646	2,169	16,650	1,302.70	92833	1,875	12,657	1,481.39
92647	2,045	13,881	1,473.24	92835	794	6,059	1,310.45
92648	1,731	12,727	1,360.10	92840	2,075	11,333	1,830.94
92649	1,212	10,285	1,178.42	92841	1,289	7,250	1,777.93
92651	1,309	9,355	1,399.25	92843	1,578	8,905	1,772.04
92653	1,175	8,967	1,310.36	92844	726	5,454	1,331.13
92655	299	1,965	1,521.63	92845	531	4,259	1,246.77
92656	1,239	11,078	1,118.43	92861	225	2,139	1,051.89
92657	281	2,475	1,135.35	92862	16	2	80,000.00
92660	1,059	10,938	968.18	92865	785	4,202	1,868.16
92661	141	1,040	1,355.77	92866	687	3,382	2,031.34
92662	140	980	1,428.57	92867	1,535	10,271	1,494.50
92663	863	5,550	1,554.95	92868	1,073	4,619	2,323.01
92672	1,602	10,768	1,487.74	92869	1,486	10,320	1,439.92
92673	873	6,490	1,345.15	92870	2,067	13,068	1,581.73
92675	1,283	15,538	825.72	92886	1,809	13,796	1,311.25
92676	126	726	1,735.54	92887	739	7,293	1,013.30
92677	2,309	19,488	1,184.83	Unknown	2,165		
Countywide					108,508	725,165	1,496.32

Source of Population: Claritas 2006

Emergency Department Visits (2006) Ages 45 - 64 Years Rate by ZIP Code of Residence



The map does not display cases with a P.O. Box or unknown ZIP Code (2%; 2,165 out of 108,508 cases).

Quality Management, Orange County Health Care Agency, 2008

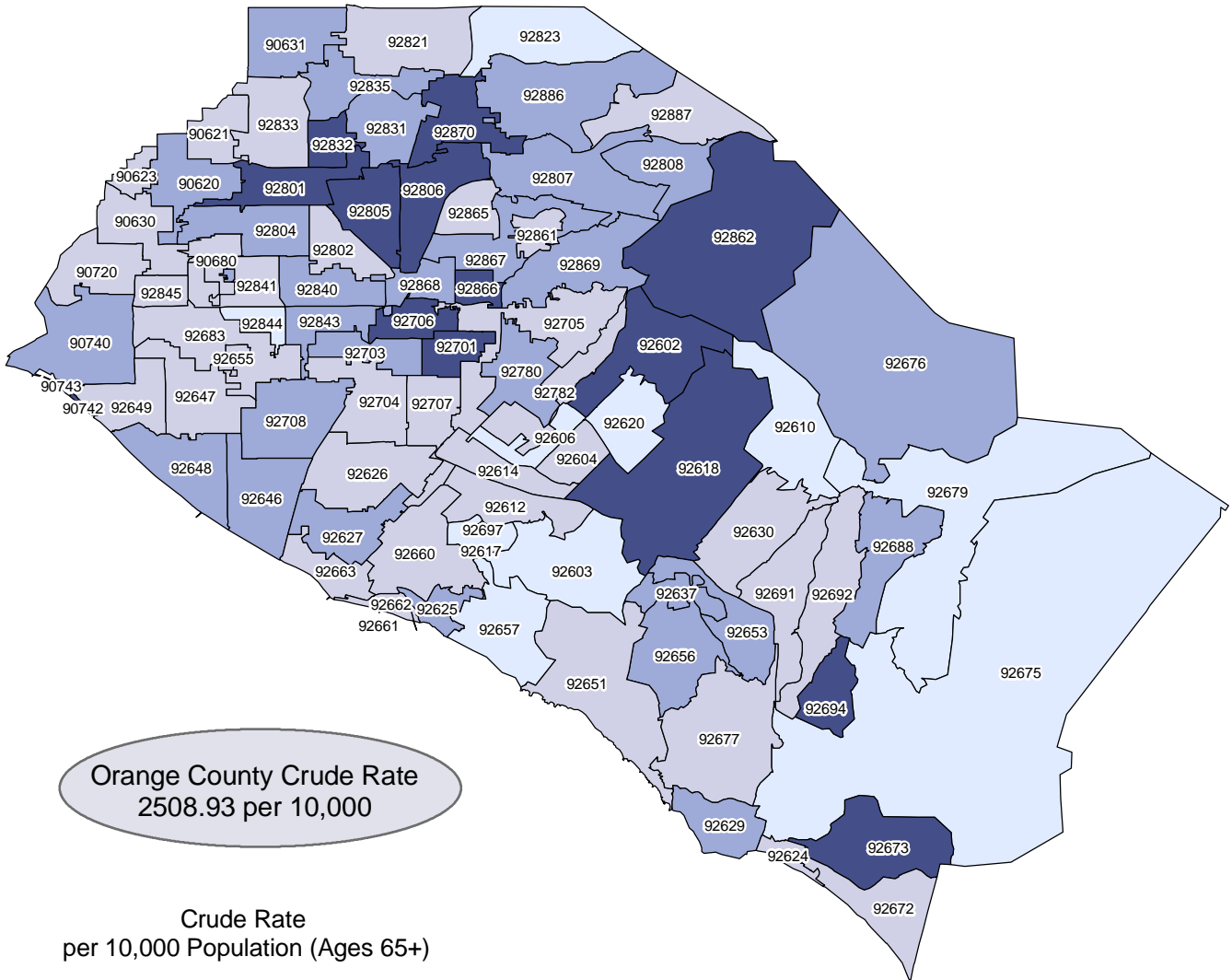
Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

**Table 7-12
Orange County Emergency Department Visits Data 2006 (65+ Yrs)
Rate by ZIP Code of Residence**

ZIP Code	Number of Visits 2006	2006 Population of 65+	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population of 65+	Crude Rate (Per 10,000)
90620	1,391	5,400	2,575.93	92679	248	1,624	1,527.09
90621	631	2,559	2,465.81	92683	2,393	10,639	2,249.27
90623	486	2,020	2,405.94	92688	498	1,853	2,687.53
90630	1,264	5,781	2,186.47	92691	1,287	5,401	2,382.89
90631	2,199	7,840	2,804.85	92692	1,318	6,817	1,933.40
90680	834	3,333	2,502.25	92694	155	310	4,992.07
90720	818	3,749	2,181.92	92697	0	2	0.00
90740	2,548	9,865	2,582.87	92701	794	2,456	3,232.90
90742	45	102	4,411.76	92703	1,093	4,024	2,716.20
90743	7	43	1,627.91	92704	1,360	5,719	2,378.04
92602	126	311	4,051.45	92705	1,426	5,750	2,480.00
92603	239	1,314	1,818.87	92706	933	3,089	3,020.39
92604	665	3,361	1,978.58	92707	868	3,477	2,496.40
92606	239	1,335	1,790.26	92708	1,986	7,286	2,725.78
92610	76	468	1,623.93	92780	1,301	5,075	2,563.55
92612	648	3,091	2,096.41	92782	250	1,227	2,037.49
92614	401	1,810	2,215.47	92801	1,869	5,175	3,611.59
92617	21	202	1,039.60	92802	869	3,744	2,321.05
92618	221	506	4,367.59	92804	2,325	8,979	2,589.38
92620	564	3,120	1,807.69	92805	1,319	4,080	3,232.84
92624	228	1,169	1,950.38	92806	924	3,107	2,973.93
92625	704	2,627	2,679.86	92807	1,129	4,083	2,765.12
92626	1,174	5,306	2,212.59	92808	357	1,287	2,773.89
92627	1,348	4,617	2,919.64	92821	1,107	4,445	2,490.44
92629	1,060	4,067	2,606.34	92823	53	342	1,549.71
92630	1,311	6,012	2,180.64	92831	955	3,661	2,608.58
92637	3,737	14,864	2,514.13	92832	734	2,394	3,066.00
92646	1,981	7,876	2,515.24	92833	1,156	5,330	2,168.86
92647	1,280	5,679	2,253.92	92835	1,208	4,559	2,649.70
92648	1,221	4,831	2,527.43	92840	1,456	5,511	2,641.99
92649	995	4,645	2,142.09	92841	849	3,625	2,342.07
92651	910	3,802	2,393.48	92843	1,015	3,727	2,723.37
92653	1,382	4,669	2,959.95	92844	395	2,288	1,726.40
92655	222	912	2,434.21	92845	480	2,369	2,026.17
92656	565	2,214	2,551.94	92861	253	1,012	2,500.00
92657	108	662	1,631.42	92862	7	1	70,000.00
92660	1,253	6,279	1,995.54	92865	513	2,162	2,372.80
92661	144	670	2,149.25	92866	540	1,612	3,349.88
92662	160	678	2,359.88	92867	1,174	4,441	2,643.55
92663	745	3,356	2,219.90	92868	701	2,390	2,933.05
92672	1,244	5,810	2,141.14	92869	1,044	3,979	2,623.77
92673	745	2,375	3,136.84	92870	1,667	5,377	3,100.24
92675	1,171	6,952	1,684.41	92886	1,503	5,159	2,913.36
92676	33	114	2,894.74	92887	365	1,463	2,494.87
92677	1,431	6,496	2,202.89	Unknown	823		
Countywide					81,275	323,943	2,508.93

Source of Population: Claritas 2006

Emergency Department Visits (2006) Ages 65 & Over Rate by ZIP Code of Residence



The map does not display cases with a P.O. Box or unknown ZIP Code (1%; 823 out of 81,275 cases).

Quality Management, Orange County Health Care Agency, 2008

Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

**Table 7.13
Orange County Emergency Department Visits Data 2006 (Males)
Rate by Zip Code of Residence**

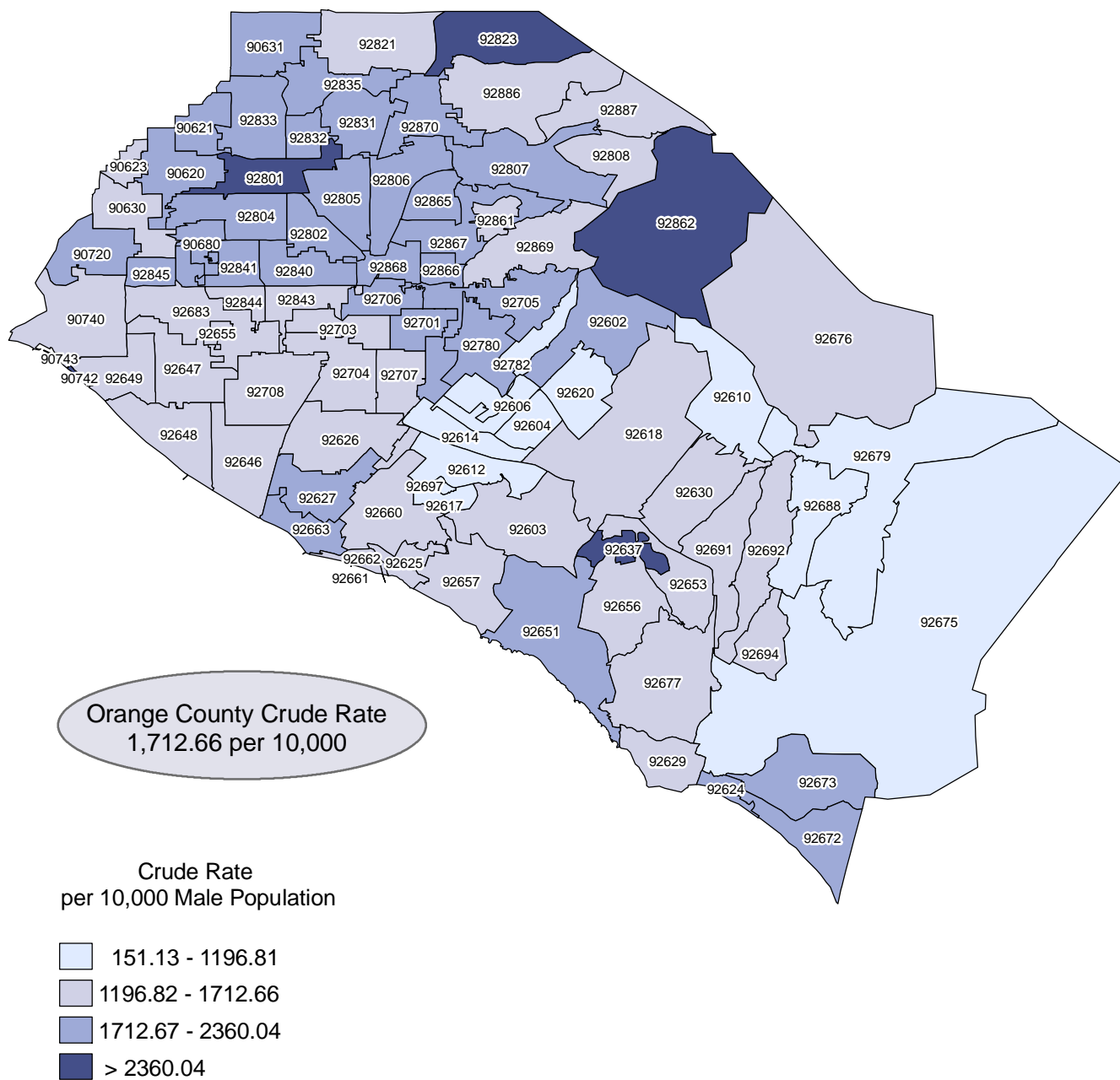
ZIP Code	Number of Visits 2006	2006 Population of Males	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population of Males	Crude Rate (Per 10,000)
90620	4,896	22,214	2,204.02	92679	1,791	18,378	974.53
90621	3,422	17,912	1,910.45	92683	6,736	45,244	1,488.82
90623	1,166	7,812	1,492.58	92688	2,817	23,608	1,193.24
90630	3,913	23,563	1,660.65	92691	3,859	23,370	1,651.26
90631	6,347	34,100	1,861.29	92692	3,115	23,709	1,313.85
90680	3,358	15,823	2,122.23	92694	1,308	10,182	1,284.62
90720	1,832	10,692	1,713.43	92697	6	397	151.13
90740	1,820	10,644	1,709.88	92701	6,151	30,467	2,018.91
90742	128	439	2,915.72	92703	6,633	39,223	1,691.10
90743	32	219	1,461.19	92704	7,989	46,802	1,706.98
92602	919	3,894	2,360.04	92705	3,981	22,269	1,787.69
92603	891	5,837	1,526.47	92706	3,627	18,782	1,931.10
92604	1,535	14,690	1,044.93	92707	5,339	33,754	1,581.74
92606	1,204	10,911	1,103.47	92708	4,204	27,439	1,532.13
92610	607	7,341	826.86	92780	4,755	27,297	1,741.95
92612	1,516	12,667	1,196.81	92782	1,111	9,936	1,118.16
92614	1,253	13,193	949.75	92801	7,925	28,942	2,738.24
92617	275	6,146	447.45	92802	4,527	23,508	1,925.73
92618	693	4,978	1,392.13	92804	9,759	44,332	2,201.34
92620	1,653	20,232	817.02	92805	8,064	36,583	2,204.30
92624	731	4,051	1,804.49	92806	3,999	17,119	2,336.00
92625	826	5,866	1,408.11	92807	3,065	16,890	1,814.68
92626	4,137	24,395	1,695.84	92808	1,407	10,681	1,317.29
92627	6,166	33,136	1,860.82	92821	2,693	18,191	1,480.40
92629	2,350	14,254	1,648.66	92823	279	1,016	2,746.06
92630	4,629	29,343	1,577.55	92831	3,247	18,090	1,794.91
92637	1,446	5,617	2,574.33	92832	2,863	13,027	2,197.74
92646	4,460	28,144	1,584.71	92833	4,595	25,058	1,833.75
92647	5,174	30,596	1,691.07	92835	1,894	10,839	1,747.39
92648	3,832	23,574	1,625.52	92840	5,345	26,103	2,047.66
92649	2,463	17,060	1,443.73	92841	2,899	15,856	1,828.33
92651	2,407	12,760	1,886.36	92843	3,759	23,026	1,632.50
92653	2,563	15,632	1,639.59	92844	1,722	12,569	1,370.04
92655	752	4,506	1,668.89	92845	1,351	7,607	1,776.00
92656	3,164	24,591	1,286.65	92861	469	3,036	1,544.80
92657	483	3,688	1,309.65	92862	34	12	28,333.33
92660	2,262	16,501	1,370.83	92865	1,789	8,925	2,004.48
92661	318	2,042	1,557.30	92866	1,479	7,914	1,868.84
92662	203	1,260	1,611.11	92867	3,848	21,830	1,762.71
92663	1,936	11,289	1,714.94	92868	2,778	12,997	2,137.42
92672	3,779	20,646	1,830.38	92869	3,148	19,517	1,612.95
92673	2,238	11,080	2,019.86	92870	4,846	26,451	1,832.07
92675	3,028	25,833	1,172.14	92886	3,655	21,761	1,679.61
92676	156	933	1,672.03	92887	1,557	11,738	1,326.46
92677	4,594	32,136	1,429.55	Unknown	3,500		
Countywide					261,475	1,526,715	1,712.66

Source of Population: Claritas 2006

Emergency Department Visits (2006)

Males

Rate by ZIP Code of Residence



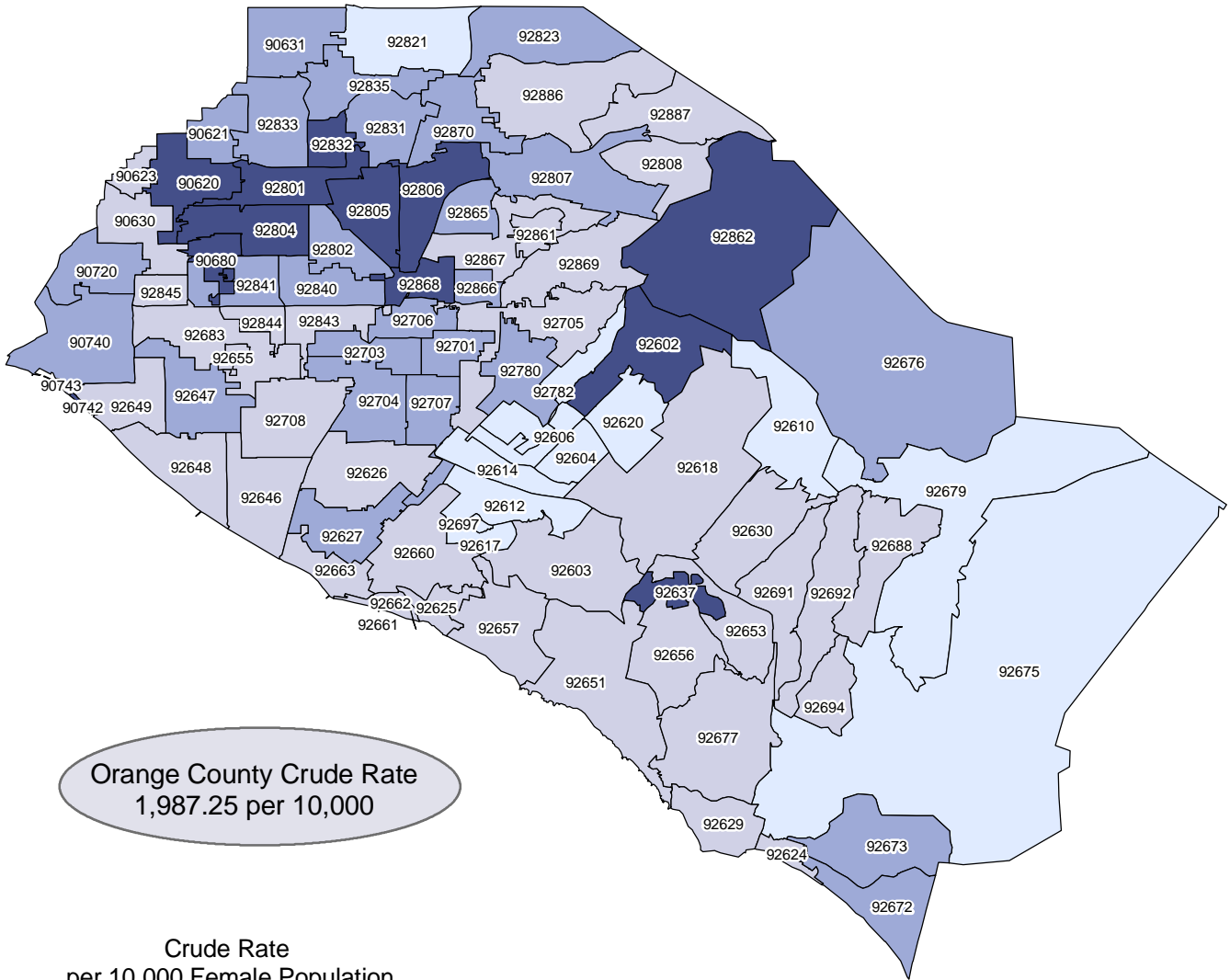
The map does not display cases with a P.O. Box or unknown ZIP Code (1.3%; 3,500 out of 261,475 cases).
 Quality Management, Orange County Health Care Agency, 2008
 Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

**Table 7.14
Orange County Emergency Department Visits Data 2006 (Females)
Rate by ZIP Code of Residence**

ZIP Code	Number of Visits 2006	2006 Population of Females	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population of Females	Crude Rate (Per 10,000)
90620	5,709	22,666	2,518.75	92679	1,865	18,363	1,015.63
90621	4,270	17,831	2,394.71	92683	7,791	45,002	1,731.26
90623	1,334	8,136	1,639.63	92688	3,390	24,378	1,390.60
90630	4,691	24,750	1,895.35	92691	4,143	24,151	1,715.46
90631	7,825	34,733	2,252.90	92692	3,609	24,983	1,444.58
90680	4,039	15,489	2,607.66	92694	1,415	9,818	1,441.23
90720	2,332	11,510	2,026.06	92697	11	409	268.95
90740	2,824	13,555	2,083.36	92701	6,324	27,641	2,287.91
90742	87	362	2,403.31	92703	8,045	34,665	2,320.78
90743	31	189	1,640.21	92704	9,137	44,385	2,058.58
92602	1,067	3,966	2,690.37	92705	4,378	22,592	1,937.85
92603	946	6,253	1,512.87	92706	4,350	18,246	2,384.08
92604	1,953	15,748	1,240.16	92707	6,566	31,339	2,095.15
92606	1,355	11,312	1,197.84	92708	4,929	28,529	1,727.72
92610	732	7,339	997.41	92780	5,919	28,169	2,101.25
92612	1,730	13,500	1,281.48	92782	1,222	10,236	1,193.83
92614	1,566	13,970	1,120.97	92801	9,704	29,231	3,319.76
92617	365	6,563	556.15	92802	5,492	22,930	2,395.12
92618	773	4,298	1,798.51	92804	12,475	44,809	2,784.04
92620	2,033	21,253	956.57	92805	9,127	34,190	2,669.49
92624	717	3,888	1,844.14	92806	4,604	16,813	2,738.36
92625	994	6,440	1,543.48	92807	3,662	17,647	2,075.14
92626	4,629	24,071	1,923.06	92808	1,555	10,879	1,429.36
92627	6,630	30,691	2,160.24	92821	34	18,934	17.96
92629	2,732	14,358	1,902.77	92823	255	1,082	2,356.75
92630	5,327	30,177	1,765.25	92831	3,906	17,882	2,184.32
92637	2,859	10,668	2,679.98	92832	3,407	12,834	2,654.67
92646	5,151	28,650	1,797.91	92833	5,275	25,485	2,069.85
92647	6,028	29,759	2,025.61	92835	2,463	11,887	2,072.01
92648	4,214	23,199	1,816.46	92840	6,296	26,346	2,389.74
92649	2,609	16,906	1,543.24	92841	3,221	15,864	2,030.38
92651	2,298	12,304	1,867.69	92843	4,365	22,369	1,951.36
92653	3,277	16,631	1,970.42	92844	1,916	12,118	1,581.12
92655	842	4,424	1,903.25	92845	1,331	7,986	1,666.67
92656	3,867	25,978	1,488.57	92861	452	3,000	1,506.67
92657	601	3,848	1,561.85	92862	30	7	42,857.14
92660	2,507	17,348	1,445.12	92865	1,980	9,204	2,151.24
92661	324	1,840	1,760.87	92866	1,966	8,249	2,383.32
92662	232	1,571	1,476.77	92867	4,217	21,782	1,936.00
92663	2,019	10,377	1,945.65	92868	3,098	11,227	2,759.42
92672	4,012	19,831	2,023.10	92869	3,840	19,702	1,949.04
92673	2,278	10,929	2,084.36	92870	5,820	26,831	2,169.13
92675	3,327	26,671	1,247.42	92886	4,325	22,661	1,908.57
92676	187	891	2,098.77	92887	1,769	12,045	1,468.66
92677	5,187	33,771	1,535.93	Unknown	6,962		
Countywide					305,151	1,535,544	1,987.25

Source of Population: Claritas 2006

Emergency Department Visits (2006) Females Rate by ZIP Code of Residence



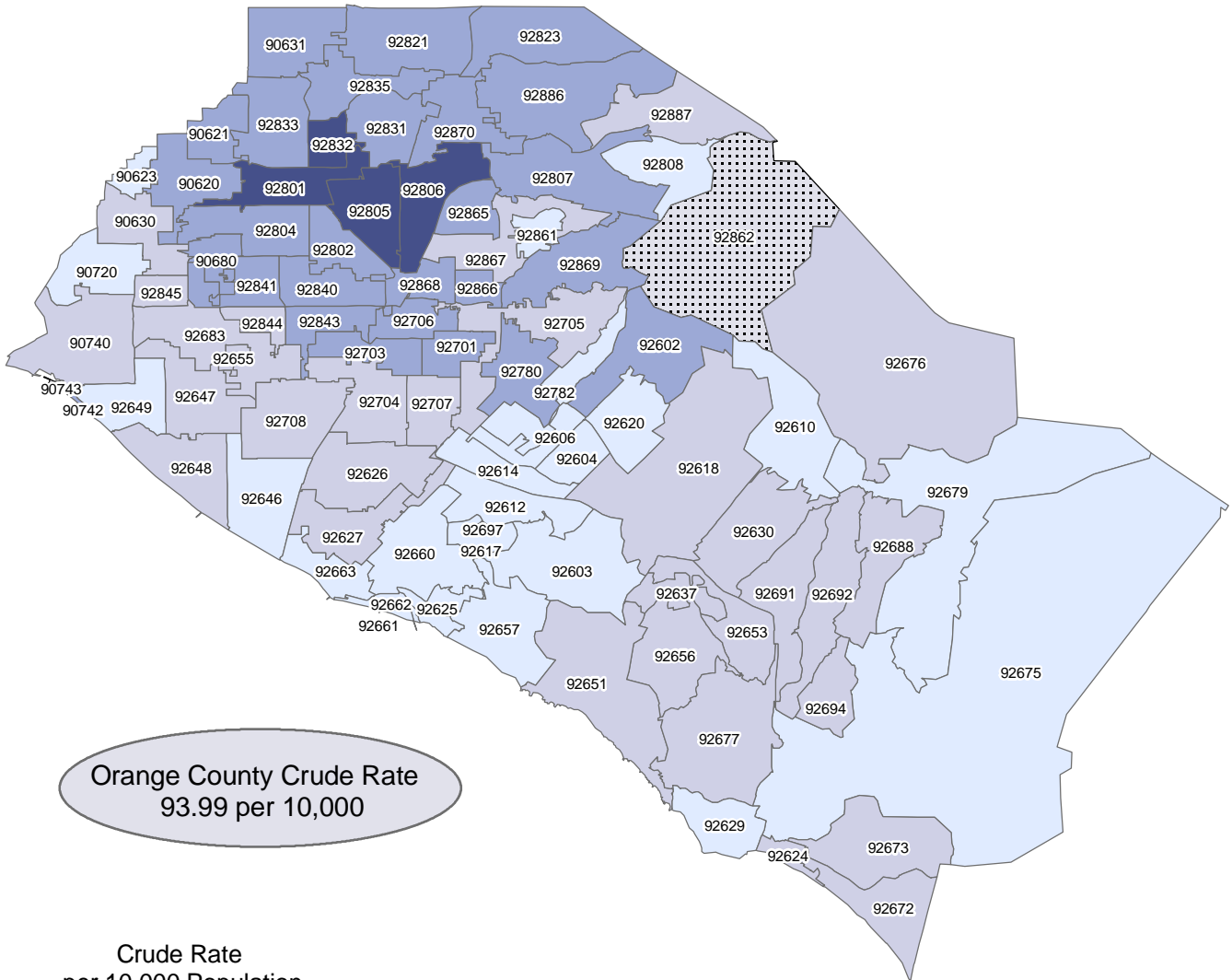
The map does not display cases with a P.O. Box or unknown ZIP Code (2.3%; 6,962 out of 305,151 cases).
 Quality Management, Orange County Health Care Agency, 2008
 Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

Table 7.15
Orange County Emergency Department Visits Data 2006 (All Ages)
Abdominal Pain
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	525	44,880	116.98	92679	213	36,741	57.97
90621	381	35,743	106.59	92683	738	90,246	81.78
90623	105	15,948	65.84	92688	347	47,986	72.31
90630	387	48,313	80.10	92691	397	47,521	83.54
90631	869	68,833	126.25	92692	362	48,692	74.34
90680	310	31,312	99.00	92694	143	20,000	71.50
90720	152	22,202	68.46	92697	2	806	24.81
90740	177	24,199	73.14	92701	598	58,108	102.91
90742	10	801	124.84	92703	785	73,888	106.24
90743	3	408	73.53	92704	831	91,187	91.13
92602	100	7,860	127.23	92705	377	44,861	84.04
92603	83	12,090	68.65	92706	415	37,028	112.08
92604	182	30,438	59.79	92707	570	65,093	87.57
92606	139	22,223	62.55	92708	438	55,968	78.26
92610	66	14,680	44.96	92780	529	55,466	95.37
92612	162	26,167	61.91	92782	116	20,172	57.51
92614	148	27,163	54.49	92801	1,105	58,173	189.95
92617	30	12,709	23.61	92802	581	46,438	125.11
92618	78	9,276	84.09	92804	1,137	89,141	127.55
92620	178	41,485	42.91	92805	1,063	70,773	150.20
92624	60	7,939	75.58	92806	526	33,932	155.02
92625	65	12,306	52.82	92807	400	34,537	115.82
92626	404	48,466	83.36	92808	148	21,560	68.65
92627	562	63,827	88.05	92821	356	37,125	95.89
92629	199	28,612	69.55	92823	22	2,098	104.86
92630	517	59,520	86.86	92831	460	35,972	127.88
92637	139	16,285	85.35	92832	403	25,861	155.83
92646	359	56,794	63.21	92833	647	50,543	128.01
92647	539	60,355	89.30	92835	259	22,726	113.97
92648	341	46,773	72.91	92840	588	52,449	112.11
92649	223	33,966	65.65	92841	310	31,720	97.73
92651	186	25,064	74.21	92843	483	45,395	106.40
92653	268	32,263	83.07	92844	192	24,687	77.77
92655	78	8,930	87.35	92845	129	15,593	82.73
92656	375	50,569	74.16	92861	37	6,036	61.30
92657	38	7,536	50.42	92862	2	19	1,052.63
92660	188	33,849	55.54	92865	189	18,129	104.25
92661	15	3,882	38.64	92866	177	16,163	109.51
92662	10	2,831	35.32	92867	353	43,612	80.94
92663	143	21,666	66.00	92868	279	24,224	115.18
92672	332	40,477	82.02	92869	369	39,219	94.09
92673	190	22,009	86.33	92870	602	53,282	112.98
92675	307	52,504	58.47	92886	431	44,422	97.02
92676	15	1,824	82.24	92887	191	23,783	80.31
92677	519	65,907	78.75	Unknown	326		
Countywide					28,783	3,062,259	93.99

Source of Population: Claritas 2006

Emergency Department Visits (2006) Abdominal Pain Rate by ZIP Code of Residence



The map does not display cases with a P.O. Box or unknown ZIP Code (1.1%; 326 out of 28,783 cases).

Quality Management, Orange County Health Care Agency, 2008

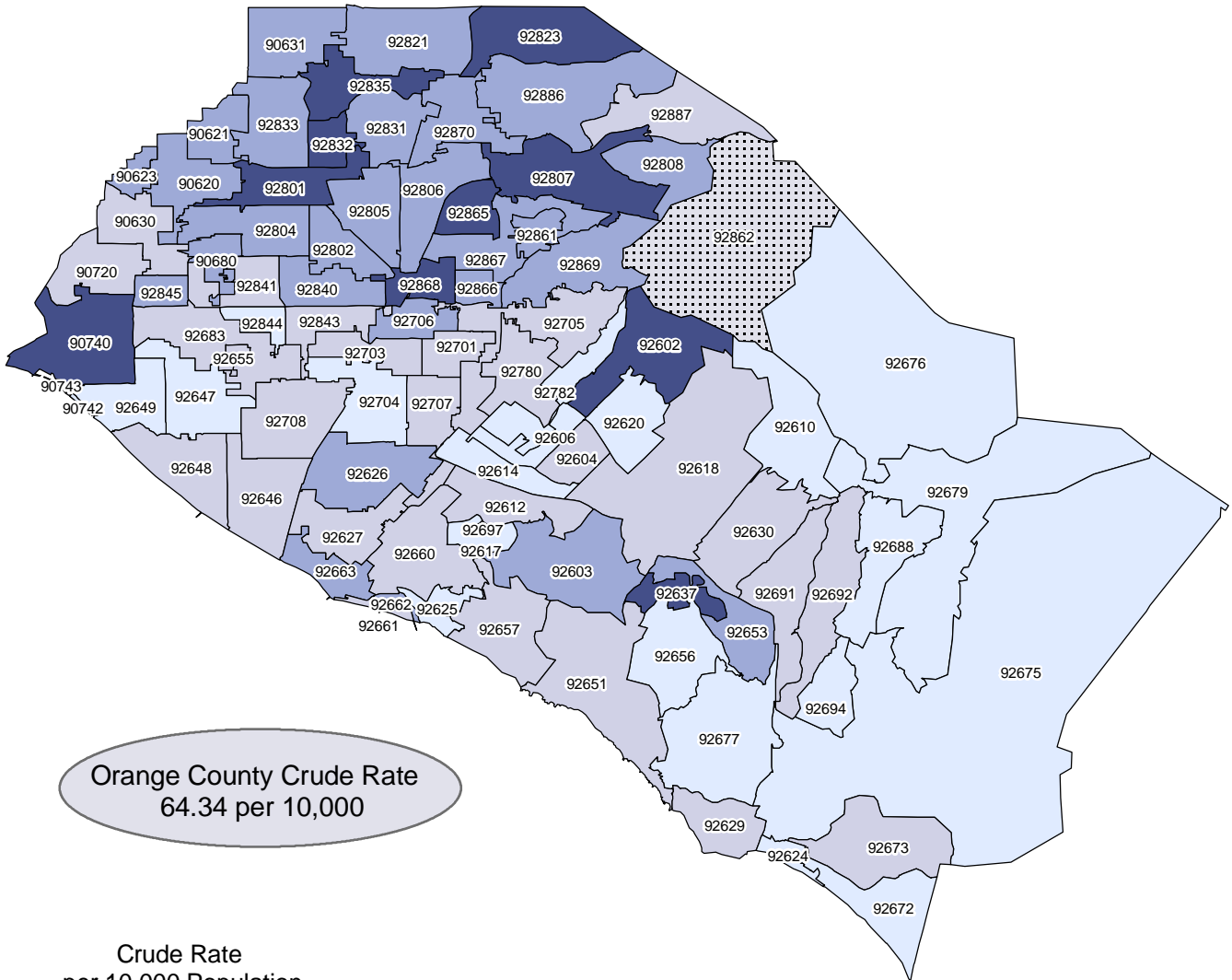
Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

Table 7.16
Orange County Emergency Department Visits Data 2006 (All Ages)
Chest Pain
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population	Crude Rate (Per 10,000)
90620	348	44,880	77.54	92679	123	36,741	33.48
90621	259	35,743	72.46	92683	482	90,246	53.41
90623	120	15,948	75.24	92688	227	47,986	47.31
90630	293	48,313	60.65	92691	296	47,521	62.29
90631	579	68,833	84.12	92692	280	48,692	57.50
90680	213	31,312	68.03	92694	94	20,000	47.00
90720	136	22,202	61.26	92697	0	806	0.00
90740	234	24,199	96.70	92701	348	58,108	59.89
90742	3	801	37.45	92703	397	73,888	53.73
90743	1	408	24.51	92704	460	91,187	50.45
92602	74	7,860	94.15	92705	281	44,861	62.64
92603	96	12,090	79.40	92706	263	37,028	71.03
92604	167	30,438	54.87	92707	335	65,093	51.46
92606	100	22,223	45.00	92708	300	55,968	53.60
92610	48	14,680	32.70	92780	328	55,466	59.14
92612	136	26,167	51.97	92782	99	20,172	49.08
92614	122	27,163	44.91	92801	633	58,173	108.81
92617	37	12,709	29.11	92802	317	46,438	68.26
92618	57	9,276	61.45	92804	704	89,141	78.98
92620	188	41,485	45.32	92805	507	70,773	71.64
92624	38	7,939	47.86	92806	301	33,932	88.71
92625	62	12,306	50.38	92807	322	34,537	93.23
92626	317	48,466	65.41	92808	142	21,560	65.86
92627	363	63,827	56.87	92821	272	37,125	73.27
92629	152	28,612	53.12	92823	29	2,098	138.23
92630	311	59,520	52.25	92831	285	35,972	79.23
92637	164	16,285	100.71	92832	246	25,861	95.12
92646	332	56,794	58.46	92833	370	50,543	73.20
92647	299	60,355	49.54	92835	213	22,726	93.73
92648	259	46,773	55.37	92840	389	52,449	74.17
92649	165	33,966	48.58	92841	202	31,720	63.68
92651	159	25,064	63.44	92843	267	45,395	58.82
92653	208	32,263	64.47	92844	102	24,687	41.32
92655	46	8,930	51.51	92845	114	15,593	73.11
92656	234	50,569	46.27	92861	42	6,036	69.58
92657	42	7,536	55.73	92862	2	19	1,052.63
92660	180	33,849	53.18	92865	184	18,129	101.49
92661	20	3,882	51.52	92866	116	16,163	71.77
92662	22	2,831	77.71	92867	332	43,612	76.13
92663	142	21,666	65.54	92868	229	24,224	94.53
92672	203	40,477	50.15	92869	261	39,219	66.55
92673	114	22,009	51.80	92870	395	53,282	74.13
92675	202	52,504	38.47	92886	373	44,422	83.97
92676	9	1,824	49.34	92887	146	23,783	61.39
92677	334	65,907	50.68	Unknown	308		
Countywide					19,704	3,062,259	64.34

Source of Population: Claritas 2006

Emergency Department Visits (2006) Chest Pain Rate by ZIP Code of Residence



Orange County Crude Rate
64.34 per 10,000

- Crude Rate
per 10,000 Population**
- 29.1 - 50.7
 - 50.8 - 64.3
 - 64.4 - 88.7
 - > 88.7
 - Suppressed (< 5 cases)

The map does not display cases with a P.O. Box or unknown ZIP Code (1.6%; 308 out of 19,704 cases).

Quality Management, Orange County Health Care Agency, 2008

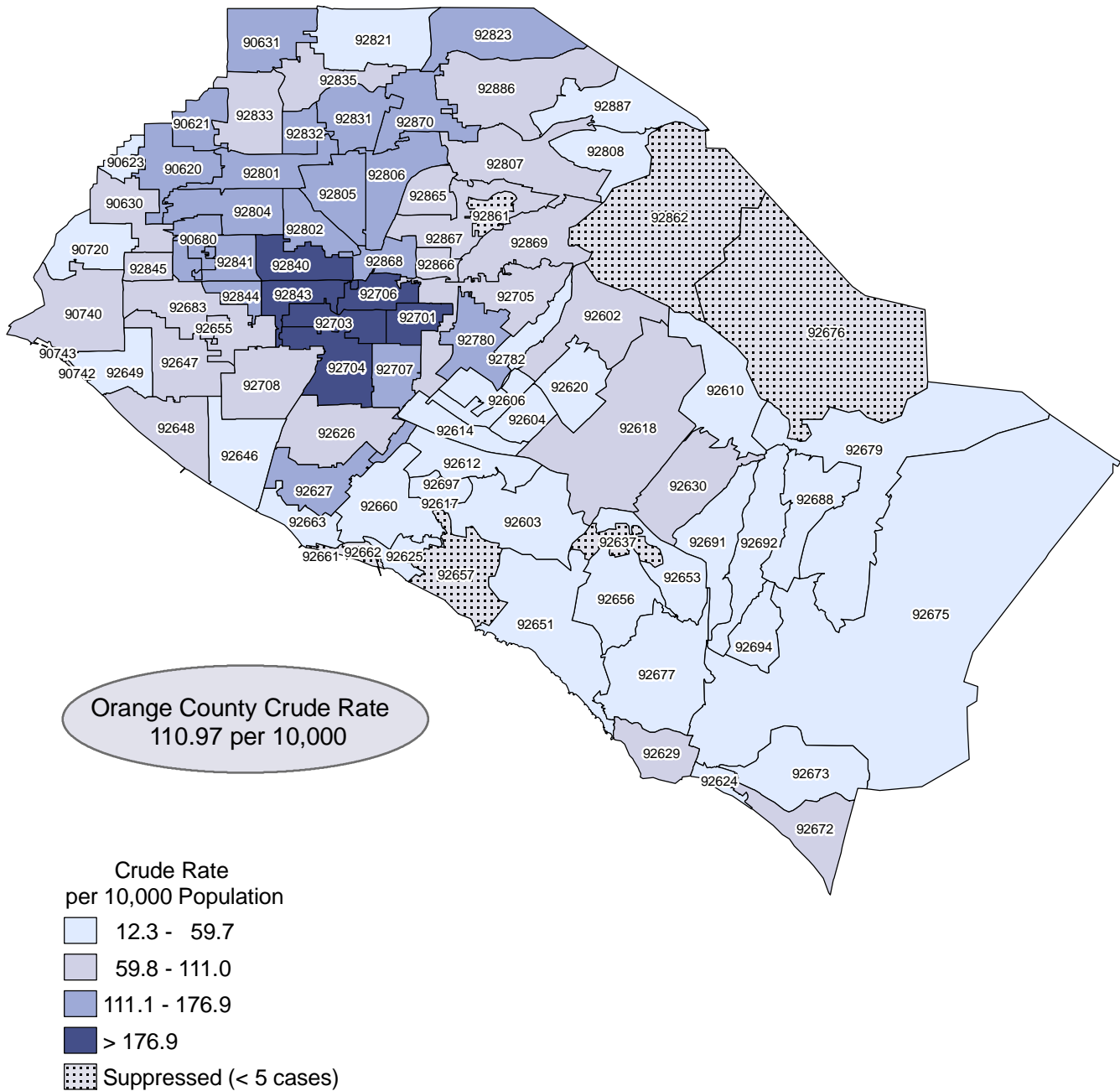
Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

Table 7.17
Orange County Emergency Department Visits Data 2006 (0 - 17 Yrs)
Acute Upper Respiratory Infection, unspecified site
Rate by ZIP Code of Residence

Zip Code	Number of Visits 2006	2006 Population of 0-17 Yrs	Crude Rate (Per 10,000)	Zip Code	Number of Visits 2006	2006 Population of 0-17 Yrs	Crude Rate (Per 10,000)
90620	133	11,820	112.52	92679	16	12,799	12.50
90621	153	11,105	137.78	92683	237	23,618	100.35
90623	19	3,468	54.79	92688	52	15,845	32.82
90630	76	11,974	63.47	92691	58	12,065	48.07
90631	232	19,359	119.84	92692	49	13,036	37.59
90680	148	9,265	159.74	92694	38	6,595	57.62
90720	28	5,177	54.09	92697	0	36	0.00
90740	18	2,993	60.14	92701	435	21,162	205.56
90742	1	92	108.70	92703	551	24,298	226.77
90743	0	79	0.00	92704	596	28,988	205.60
92602	16	2,470	64.78	92705	138	12,460	110.75
92603	11	2,695	40.82	92706	229	12,142	188.60
92604	19	7,178	26.47	92707	368	21,232	173.32
92606	13	5,548	23.43	92708	76	12,616	60.24
92610	6	4,896	12.25	92780	255	15,716	162.26
92612	23	3,974	57.88	92782	27	5,022	53.76
92614	14	6,488	21.58	92801	290	18,159	159.70
92617	5	1,131	44.21	92802	261	14,775	176.65
92618	13	1,739	74.76	92804	458	25,892	176.89
92620	15	11,334	13.23	92805	357	23,980	148.87
92624	10	1,737	57.57	92806	154	9,511	161.92
92625	7	1,765	39.66	92807	60	7,850	76.43
92626	94	9,963	94.35	92808	19	6,156	30.86
92627	210	16,643	126.18	92821	53	8,872	59.74
92629	34	5,608	60.63	92823	6	472	127.12
92630	105	15,388	68.23	92831	112	7,672	145.99
92637	0	36	0.00	92832	107	7,299	146.60
92646	56	12,298	45.54	92833	105	13,564	77.41
92647	156	15,405	101.27	92835	38	4,827	78.72
92648	55	9,117	60.33	92840	360	14,408	249.86
92649	38	6,567	57.87	92841	150	8,557	175.30
92651	18	4,097	43.93	92843	276	13,887	198.75
92653	44	8,028	54.81	92844	103	6,866	150.01
92655	26	2,444	106.38	92845	31	3,777	82.08
92656	61	13,981	43.63	92861	2	1,274	15.70
92657	4	1,934	20.68	92862	1	9	1,111.11
92660	22	6,896	31.90	92865	51	4,873	104.66
92661	3	467	64.24	92866	46	4,293	107.15
92662	2	280	71.43	92867	120	12,050	99.59
92663	16	2,815	56.84	92868	102	6,337	160.96
92672	57	8,961	63.61	92869	95	10,166	93.45
92673	36	6,217	57.91	92870	182	13,858	131.33
92675	78	13,711	56.89	92886	73	11,096	65.79
92676	3	359	83.57	92887	25	6,905	36.21
92677	66	17,339	38.06	Unknown	81		
				Countywide	8,987	809,856	110.97

Source of Population: Claritas 2006

Emergency Department Visits (2006) - Ages 0 to 17 years Acute Upper Respiratory Infection, unspecified site Rate by ZIP Code of Residence



The map does not display cases with a P.O. Box or unknown ZIP Code (< 1%; 81 out of 8,987 cases).

Quality Management, Orange County Health Care Agency, 2008

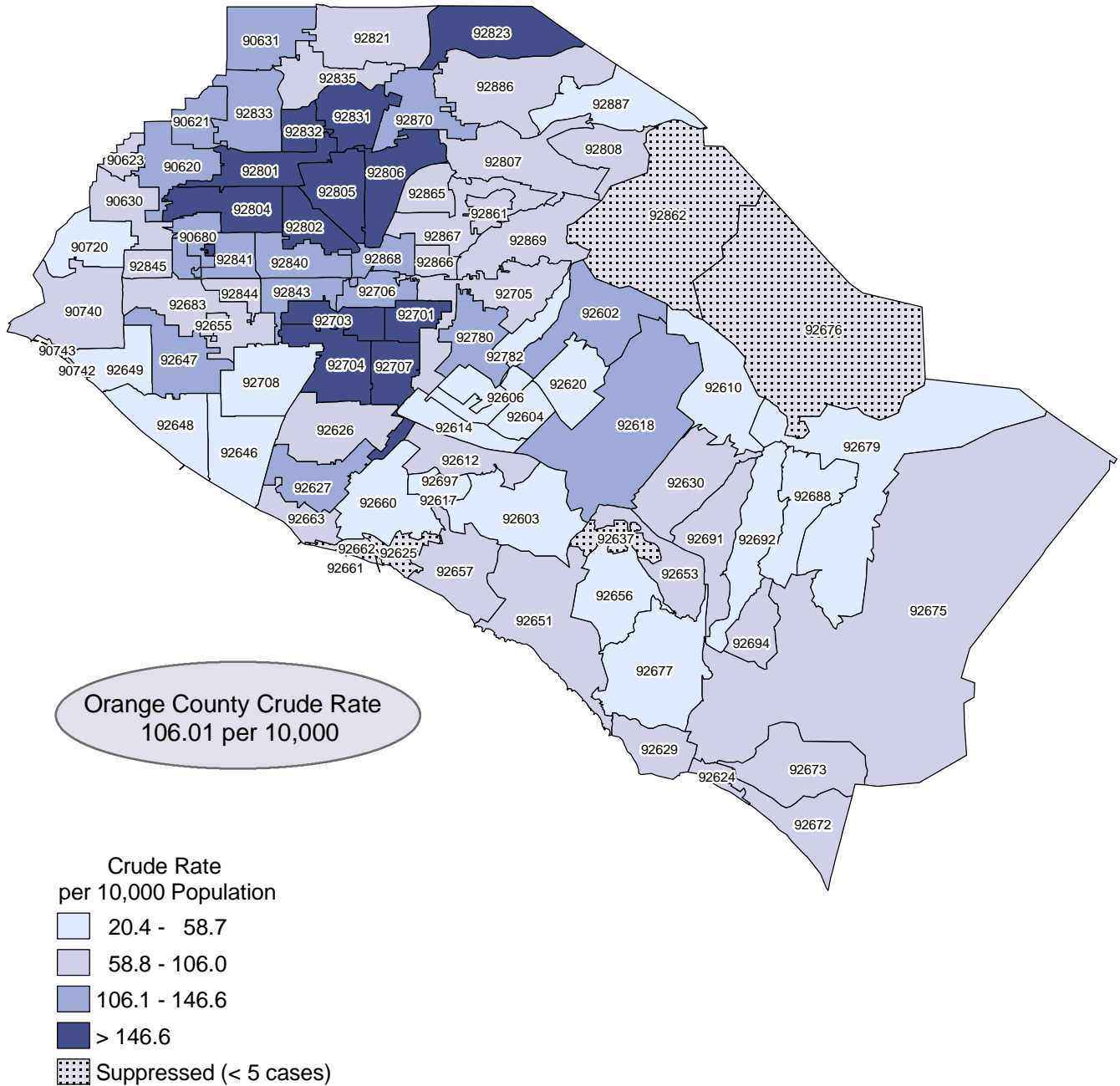
Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

Table 7.18
Orange County Emergency Department Visits Data 2006 (0 - 17 Yrs)
Otitis Media, unspecified
Rate by ZIP Code of Residence

ZIP Code	Number of Visits 2006	2006 Population of 0-17 Yrs	Crude Rate (Per 10,000)	ZIP Code	Number of Visits 2006	2006 Population of 0-17 Yrs	Crude Rate (Per 10,000)
90620	148	11,820	125.21	92679	29	12,799	22.66
90621	149	11,105	134.17	92683	192	23,618	81.29
90623	23	3,468	66.32	92688	60	15,845	37.87
90630	93	11,974	77.67	92691	92	12,065	76.25
90631	264	19,359	136.37	92692	43	13,036	32.99
90680	112	9,265	120.89	92694	42	6,595	63.68
90720	28	5,177	54.09	92697	0	36	0.00
90740	24	2,993	80.19	92701	321	21,162	151.69
90742	2	92	217.39	92703	365	24,298	150.22
90743	0	79	0.00	92704	479	28,988	165.24
92602	32	2,470	129.55	92705	118	12,460	94.70
92603	13	2,695	48.24	92706	178	12,142	146.60
92604	33	7,178	45.97	92707	325	21,232	153.07
92606	22	5,548	39.65	92708	74	12,616	58.66
92610	10	4,896	20.42	92780	174	15,716	110.72
92612	34	3,974	85.56	92782	20	5,022	39.82
92614	34	6,488	52.40	92801	364	18,159	200.45
92617	5	1,131	44.21	92802	227	14,775	153.64
92618	20	1,739	115.01	92804	414	25,892	159.89
92620	33	11,334	29.12	92805	516	23,980	215.18
92624	15	1,737	86.36	92806	164	9,511	172.43
92625	4	1,765	22.66	92807	71	7,850	90.45
92626	87	9,963	87.32	92808	43	6,156	69.85
92627	189	16,643	113.56	92821	67	8,872	75.52
92629	39	5,608	69.54	92823	10	472	211.86
92630	141	15,388	91.63	92831	116	7,672	151.20
92637	0	36	0.00	92832	125	7,299	171.26
92646	69	12,298	56.11	92833	175	13,564	129.02
92647	168	15,405	109.06	92835	40	4,827	82.87
92648	53	9,117	58.13	92840	203	14,408	140.89
92649	38	6,567	57.87	92841	95	8,557	111.02
92651	28	4,097	68.34	92843	165	13,887	118.82
92653	64	8,028	79.72	92844	64	6,866	93.21
92655	17	2,444	69.56	92845	25	3,777	66.19
92656	65	13,981	46.49	92861	9	1,274	70.64
92657	13	1,934	67.22	92862	1	9	1,111.11
92660	28	6,896	40.60	92865	48	4,873	98.50
92661	3	467	64.24	92866	45	4,293	104.82
92662	2	280	71.43	92867	124	12,050	102.90
92663	18	2,815	63.94	92868	88	6,337	138.87
92672	87	8,961	97.09	92869	76	10,166	74.76
92673	63	6,217	101.34	92870	160	13,858	115.46
92675	92	13,711	67.10	92886	82	11,096	73.90
92676	1	359	27.86	92887	38	6,905	55.03
92677	95	17,339	54.79	Unknown	60		
Countywide					8,585	809,856	106.01

Source of Population: Claritas 2006

Emergency Department Visits (2006) - Ages 0 to 17 years Otitis Media, unspecified Rate by ZIP Code of Residence



The map does not display cases with a P.O. Box or unknown ZIP Code (< 1%; 60 out of 8,585 cases).

Quality Management, Orange County Health Care Agency, 2008

Data Source: 2006 Emergency Department Data, Office of Statewide Health Planning & Development

Section 8: Ambulatory Surgical Procedures

Section 8

Ambulatory Surgical Procedures

There has been a substantial shift in the treatment of patients from inpatient to outpatient care. This shift is due to a number of causes, including improvements in minimally invasive procedures such as the advent of arthroscopic and laser procedures, which has allowed patients to recover more quickly and with fewer side-effects. Another impetus was the drive for cost containment due to the soaring costs of health care. Since the early 1980's Medicare, which is a major funding source of most hospitals and health care in general, has continued to provide incentives for health care organizations to move once hospital based procedures into the less costly environment of free standing outpatient centers. These changes have led to a dramatic increase in the number of outpatient surgery centers. Therefore, to fully comprehend how health care is utilized within Orange County, it is important to understand the rates and types of procedures being performed in outpatient centers, which will in turn help guide health care purchasing and policy making decisions. In addition, the data can help determine if residents are being underserved in terms of preventive care. One example of this would be the number of OC residents who had a colonoscopy, a screening procedure which is recommended for all individuals over age of 50.

About the Data:

The data for this section comes from the California Office of Statewide Health Planning and Development (OSHPD) 2006 Ambulatory Surgical (AS) Patient Data set, which uses Clinical Procedures Terminology (CPT)-4 codes to identify the type of procedure. This data set provides de-identified patient records of all visits to Orange County Ambulatory Surgical centers in addition to all procedures performed on OC residents at Ambulatory Surgical centers in other counties. The purpose of this study was to identify the most common AS procedures and characterize those procedures performed either on OC residents or within OC facilities. The number of procedures may include multiple events for a single individual.

All Ambulatory Surgical Procedures (OC residents or OC facilities)

There were a total of 300,783 procedures performed in ambulatory surgical centers in 2006.

- 92.1% were performed in Orange County facilities, the remaining 7.9% of procedures were performed on OC residents in another county.
- 85.8% of the total procedures were performed on OC residents, while 14.2% were non-OC residents at an OC facility.
- The majority of all procedures (60.6%) occurred in hospitals and the remaining 39.4% occurred in freestanding clinics.
- The average age for all procedures was 53 years. Males and females both had an average age of 53 years.
- Among all procedures, 60.8% of patients were White, 15.9% Hispanic, 9% were Asian/Pacific Islander, 1.2% were Black, 2.8% were other races, and 10.2% were unknown.
- Males represented slightly more than half (56.1%) of all patients who had a procedure performed.

- Health Maintenance Organizations (HMOs) were the largest source of payments (28.5%), followed by Blue Cross/Blue Shield (12.4%), Medicare Part-B (11.5%), and Preferred Provider Organizations (PPOs) accounting for 10.7% of all payments.

Ambulatory Surgical Procedures Among OC Facilities (OC residents or Non-OC residents)

Among all AS procedures, 92.3% (n=277,064) occurred in OC facilities.

- OC residents represented 84.6% (n=234,411) and non-OC residents accounted for 15% (n=42,653) of all procedures.
- 60.5% of procedures occurred in hospitals, with the remaining 39.5% of cases occurring in freestanding clinics.
- Four OC facilities accounted for more than one-fourth of all procedures performed in the county: 7.5% occurred at Hoag Memorial Hospital Presbyterian (n=20,812), St. Jude Medical Center performed 7.4% (n=20,366), St. Joseph Hospital performed 6.6% (n=18,424), and Fountain Valley Regional Hospital and Medical Center accounted for 4.8% of all ambulatory surgical procedures (n=13,301).

Ambulatory Surgical Procedures Among OC Residents (OC or Non-OC facilities)

OC residents accounted for 85.8% (n=258,072) of all procedures.

- 90.8% had ambulatory surgical procedures within OC and another 9.2% had ambulatory surgical procedures in non-OC facilities.
- 60.4% of procedures occurred in hospitals, while the remaining 39.6% occurred in freestanding clinics.
- The mean age among OC residents for both males and females was 54 years of age.
- Health Maintenance Organizations (HMOs) were the most common source of payments (28.6%), followed by Blue Cross/Blue Shield (12.8%), Medicare Part-B (11.5%), and Preferred Provider Organizations (PPOs) represented 10.9% of all payments.

Findings

Colonoscopies was the most common procedure performed in almost one-fifth of all cases (n=60,084). Among all OC residents, colon screening (49.1%) was the most common reason given for the procedure. Diverticulosis (i.e. a “pouch like” bulging of the colon wall) was the diagnosis given in 10.7% of colonoscopy procedures. The countywide crude rate for all colonoscopy procedures was 178.14 per 10,000 of the population. 59.3% of colonoscopies were performed on Whites, 9.3% on Hispanics, 9% on Asian/Pacific Islanders, and 0.9% of colonoscopies were performed on African Americans. The source of payment for nearly two-thirds (61.6%) of all procedures were HMOs, PPOs, or Blue Shield/Blue Cross.

Upper Gastrointestinal (GI) Endoscopy was the second leading procedure, representing 7.3% of all procedures (n=21,859). Among OC residents, gastritis (i.e. an inflammation of the stomach lining) was the most common reason for the procedure (22.3%), followed by esophageal reflux or acid reflux (8.9%). The countywide crude rate for Upper GI procedures was 62.52 per 10,000 of the population. Whites accounted for almost half (49.9%) of performed procedures, 17.5% were Asian/Pacific Islander, 14.5% were performed on Hispanics, and African Americans accounted for 0.8%. The payment source for more than one-quarter (26.3%) of procedures performed on OC residents was HMOs, followed by Medicare Part-B (15.6%).

Tonsillectomy and/or Adenoidectomy, the removal of the tonsils and or the adenoids, were the most common procedures performed among children 0-17 years of age. An inflammation of the tonsils and/or the adenoids was the most common reason for the procedure among OC residents, accounting for 72.3% (n=2,445) of all procedures. The countywide crude rate for the procedure was 27.21 per 10,000 of the population. More than half (55.5%) of all Tonsillectomy/adenoidectomy procedures were performed on Whites, 28.7% were performed on Hispanics, 7.2% on Asian/Pacific Islanders, and 0.9% of procedures were performed on African Americans. The payment source for nearly three-fourths (76.2%) of all procedures were HMOs, PPOs, or Blue Shield/Blue Cross.

Tympanostomy, which is the insertion of a tube into the eardrum for drainage, accounted for 10.6% of all procedures performed on children 0-17 years of age. Nonsuppurative Otitis Media (i.e. ear infections without discharge), which accounted for 76.5% (n=1,926) of all Tympanostomy procedures, was the most common diagnosis for this procedure. 62.7% of procedures were performed on Whites, 22.6% on Hispanics, 4.6% were performed on Asian/Pacific Islanders, and African Americans accounted for 0.7% of procedures. 74.4% of all Tympanostomy procedures were paid for through HMOs, PPOs, or Blue Shield/Blue Cross.

Tables and Maps

The tables below identify the top 20 most frequent ambulatory surgical (AS) procedures and are listed by all procedures, procedures by age group, and procedures by gender. All tables are ranked based on the percentage of total AS procedures within each category.

The tables and maps provided within this report depict the distribution of all AS procedures, procedures by age group, and procedures by gender. The remaining tables and maps represent the top 2 most prevalent AS procedures, specifically, “Colonoscopy” and “Upper Gastrointestinal Endoscopy.” These procedures were generally the most common procedures across all age groups and gender. There were two exceptions for which tables and maps are also provided; children below 18 years of age most often had “Tonsillectomies/Adenoidectomies” or “Tympanostomies (insertion of a ventilation tube),” and adults over the age of 65 most often had “Cataract Removal” procedures in addition to “colonoscopies.” The tables and corresponding maps use crude rates per 10,000 of the ZIP code population. For each indicator, the countywide rate is provided. Because the rates in ZIP codes with small populations are unstable, rates should be interpreted with caution.

Tables: Top 20 Procedures for Ambulatory Surgical Data

- 8.1 All Ages
- 8.2 Under Age 18
- 8.3 Ages 18-44
- 8.4 Ages 45-64
- 8.5 Age 65+ years
- 8.6 All Males
- 8.7 Top 20 Procedures All Females

Tables/Maps: Ambulatory Surgical Procedures (2006) - Rate of Procedure by ZIP Code of Residence

- 8.8 All Ages
- 8.9 Females
- 8.10 Males
- 8.11 Under Age 18
- 8.12 Ages 18-44
- 8.13 Ages 45-64
- 8.14 Age 65+ years
- 8.15 Colonoscopy w/without Biopsy-All Ages
- 8.16 Upper Gastrointestinal (GI) Endoscopy, w/without Biopsy-All Ages
- 8.17 Tonsillectomy and/or Adenoidectomy Ages 0-17
- 8.18 Tympanostomy (Insertion of Ventilating Tube) Ages 0-17
- 8.19 Cataract Surgery-Ages 65+

Table 8.1
Twenty Most Prevalent Ambulatory Surgical Procedures (2006)
All Procedures (n=300,783)

Rank	CPT-4 Description	CPT-4 Code	Number of Procedures 2006	Percent of Total AS Events
1	Colonoscopy, flexible, proximal to splenic flexure; w/without biopsy	45378, 45380, 45385, 45384, 45383	60,084	20.0%
2	Upper Gastrointestinal (GI) endoscopy, w/without biopsy	43239, 43235	21,859	7.3%
3	Cataract removal w/insertion of intraocular lens prosthesis	66984	19,008	6.3%
4	Epidural pain block: Injection of anesthetic substance (including narcotics)	62311, 64483, 62310	14,521	4.8%
5	Surgical pathology (Level IV), gross and microscopic examination	88305	7,831	2.6%
6	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving) or ACL	29881, 29880	7,791	2.6%
7	Routine venipuncture (blood draw) or finger/heel/ear stick for collection of specimen(s)	36415	5,340	1.8%
8	Repair initial inguinal hernia, age 5 years or over	49505	3,420	1.1%
9	Mammaplasty, augmentation; w/prosthetic implant	19325	2,337	0.8%
10	Surgical pathology (Level III), gross and microscopic examination	88304	2,268	0.8%
11	Neuroplasty and/or transposition; median nerve release at carpal tunnel	64721	2,240	0.7%
12	Shoulder arthroscopic surgery	29826	2,168	0.7%
13	Hysteroscopy with biopsy/polypectomy	58558	2,157	0.7%
14	Tympanostomy (insertion of ventilating tube in eardrum)	69436	2,139	0.7%
15	Laparoscopic cholecystectomy (removal of gall bladder)	47562	1,967	0.7%
16	Treatment of missed abortion, completed surgically; first trimester	59820	1,924	0.6%
17	Blood glucose monitoring device(s) cleared by the FDA specifically for home use	82962	1,840	0.6%
18	Surgery on anterior segment of eye (unlisted procedure)	66999	1,722	0.6%
19	Left heart catheterization, retrograde, from the brachial artery, axillary artery or femoral artery; percutaneous	93510	1,516	0.5%
20	Fluoroscopic guidance/localization of needle/catheter tip for spine/paraspinous diagnostic/therapeutic injection	76005	1,506	0.5%
			Top 20 AS Events All Ages:	163,638
			All other AS Events All Ages:	137,145
			Total AS Events All Ages:	300,783

Source: 2006 OSHPD Orange County Ambulatory Surgical Data (Includes OC and Non-OC Residents)

Table 8.2
Twenty Most Prevalent Ambulatory Surgical Procedures (2006)
Ages 0 to 17 (N=18,252)

Rank	CPT-4 Description	CPT-4 Code	Number of Procedures 2006	Percent of AS Events Ages 0-17
1	Tonsillectomy and adenoidectomy	42820, 42830, 42821, 42826, 42825	2,445	13.4%
2	Tympanostomy (insertion of ventilating tube in eardrum)	69436	1,926	10.6%
3	Upper Gastrointestinal (GI) endoscopy, w/without biopsy	43239	619	3.4%
4	MRI brain & brain stem, w/without contrast	70553	517	2.8%
5	Repair initial inguinal hernia, age 5 years or over; reducible	49505, 49500	409	2.2%
6	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving) or ACL	29888, 29881	381	2.1%
7	Strabismus surgery (eye muscle), one horizontal muscle	67311	367	2.0%
8	Circumcision, surgical excision other than clamp, device or dorsal slit; except newborn	54161	286	1.6%
9	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	20680	234	1.3%
10	Surgery of dentoalveolar structures (unlisted procedure)	41899	214	1.2%
11	Probing of nasolacrimal duct, with or without irrigation; requiring general anesthesia	68811	205	1.1%
12	Orchiopexy (repair of undescended testicle), inguinal approach, w/without hernia repair	54640	180	1.0%
13	Surgical pathology (Level I), gross and microscopic examination	88300	173	0.9%
14	Dressings and/or debridement, initial or subsequent; without anesthesia	16020	167	0.9%
15	Surgical pathology (Level III), gross and microscopic examination	88304	138	0.8%
16	Cystourethroscopy (including ureteral catheterization); w/subureteric injection of implant material	52327	117	0.6%
17	Closed treatment of distal radial fracture (wrist fracture) or epiphyseal separation	25605	111	0.6%
18	Ventilating tube removal when originally inserted by another physician	69424	105	0.6%
19	Tympanoplasty without mastoidectomy	69631	91	0.5%
20	Closed treatment of nasal bone fracture; with stabilization.	21320	90	0.5%
			Top 20 AS Events Ages 0-17:	8,775
			All other AS Events Ages 0-17:	9,479
			Total AS Events Ages 0-17:	18,254
				48.1%
				51.9%
				100%

Source: 2006 OSHPD Orange County Ambulatory Surgical Data (Includes OC and Non-OC Residents)

Table 8.3
Twenty Most Prevalent Ambulatory Surgical Procedures (2006)
Ages 18 to 44 (N=72,077)

Rank	CPT-4 Description	CPT-4 Code	Number of Procedures 2006	Percent of AS Events Among 18-44
1	Colonoscopy, flexible, proximal to splenic flexure; w/without biopsy	45378, 45380	4,988	6.9%
2	Upper Gastrointestinal (GI) endoscopy, w/without biopsy	43239	4,301	6.0%
3	Treatment of missed abortion, completed surgically; first trimester	59820, 59812	2,690	3.7%
4	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving) or ACL	29881, 29888	2,451	3.4%
5	Epidural pain block: Injection of anesthetic substance (including narcotics)	62311, 64483	2,334	3.2%
6	Mammoplasty, augmentation; with prosthetic implant	19325	2,029	2.8%
7	Surgical pathology (Level IV), gross and microscopic examination	88305	1,542	2.1%
8	Laparoscopy, surgical; with fulgeration or excision of the ovary, pelvic viscera or peritoneal surface, or oviducts	58662, 58670	1,452	2.0%
9	Routine venipuncture or finger/heel/ear stick for collection of specimen(s)	36415	1,054	1.5%
10	Maternity care and delivery (unlisted procedure)	59899	1,027	1.4%
11	Surgical pathology (Level III), gross and microscopic examination	88304	966	1.3%
12	Repair initial inguinal hernia, age 5 years or over; reducible	49505	950	1.3%
13	Hysteroscopy with biopsy/polypectomy	58558	945	1.3%
14	Follicle puncture for oocyte retrieval, any method	58970	944	1.3%
15	Laparoscopic Cholecystectomy (removal of gall bladder)	47562	902	1.3%
16	Surgery on anterior segment of eye (Unlisted procedure)	66999	893	1.2%
17	Tonsillectomy, primary or secondary; age 12 or over	42826	845	1.2%
18	Septoplasty or submucous resection (Straightening of the nasal passage)	30520	800	1.1%
19	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate).	20680	638	0.9%
20	Shoulder arthroscopic surgery	29826	624	0.9%
			Total Events Ages 18-44:	32,375
			All other AS Events Ages 18-44:	39,702
			Total AS Events Ages 18-44:	72,077
				44.9%
				55.1%
				100%

Source: 2006 OSHPD Orange County Ambulatory Surgical Data (Includes OC and Non-OC Residents)

Table 8.4
Twenty Most Prevalent Ambulatory Surgical Procedures (2006)
Ages 45 to 64 (n=116,838)

Rank	CPT-4 Description	CPT-4 Code	Number of Procedures 2006	Percent of AS Events Among 44-64	
1	Colonoscopy, flexible, proximal to splenic flexure; w/without biopsy	45378, 45380, 45385, 45384, 45383	34,221	29.3%	
2	Upper Gastrointestinal (GI) endoscopy, w/without biopsy	43239, 43235	8,716	7.5%	
3	Epidural pain block: Injection of anesthetic substance (including narcotics)	62311, 64483, 62310, 64475	5,946	5.1%	
4	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving) or ACL	29881, 29880	4,024	3.4%	
5	Surgical pathology (Level IV), gross and microscopic examination	88305	3,770	3.2%	
6	Cataract removal w/insertion of intraocular lens prosthesis	66984	3,480	3.0%	
7	Routine venipuncture (blood draw) or finger/heel/ear stick for collection of specimen(s)	36415	1,585	1.4%	
8	Repair initial inguinal hernia, age 5 years or over; reducible	49505	1,332	1.1%	
9	Shoulder arthroscopy/surgery: Subacromial space	29826	1,255	1.1%	
10	Neuroplasty and/or transposition; median nerve release at carpal tunnel	64721	1,099	0.9%	
11	Hysteroscopy with biopsy/polypectomy	58558	1,032	0.9%	
12	Surgical pathology (Level III), gross and microscopic examination	88304	879	0.8%	
13	Blood glucose monitoring device(s) cleared by the FDA specifically for home use	82962	760	0.7%	
14	Laparoscopic cholecystectomy (removal of gall bladder)	47562	759	0.6%	
15	Surgery on anterior segment of eye (unlisted procedure)	66999	735	0.6%	
16	Hallux valgus (bunion) correction, with or without sesamoidectomy; with metatarsal osteotomy	28296	717	0.6%	
17	Left heart catheterization, retrograde, from the brachial artery, axillary artery or femoral artery; percutaneous	93510	715	0.6%	
18	Fluoroscopic (X-ray) guided spinal therapeutic injection procedures	76005	659	0.6%	
19	Lithotripsy, extracorporeal shock wave.	50590	577	0.5%	
20	Injection of other agent into spinal canal	62318	519	0.4%	
			Top 20 AS Events Ages 45-64:	72,780	62.3%
			All other AS Events Ages 45-64:	44,058	37.7%
			Total AS Events Ages 45-64:	116,838	100%

Source: 2006 OSHPD Orange County Ambulatory Surgical Data (Includes OC and Non-OC Residents)

Table 8.5
Twenty Most Prevalent Ambulatory Surgical Procedures (2006)
Ages 65+ (n=93,614)

Rank	CPT-4 Description	CPT-4 Code	Number of Procedures 2006	Percent of AS Events Among 65+	
1	Colonoscopy, flexible, proximal to splenic flexure; w/without biopsy	45378, 45380, 45385, 45384, 45383	19,958	21.3%	
2	Cataract removal w/insertion of intraocular lens prosthesis	66984, 66821, 66982	16,647	17.8%	
3	Upper Gastrointestinal (GI) endoscopy, w/without biopsy	43239, 43235, 43249, 43242	8,287	8.9%	
4	Epidural pain block: Injection of anesthetic substance (including narcotics)	62311, 64483, 64475, 62310	6,915	7.4%	
5	Routine venipuncture (blood draw) or finger/heel/ear stick for collection of specimen(s)	36415	2,669	2.9%	
6	Surgical pathology (Level IV), gross and microscopic examination	88305	2,443	2.6%	
7	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving) or ACL	29881, 29880	1,463	1.6%	
8	Blood glucose monitoring device(s) cleared by the FDA specifically for home use	82962	946	1.0%	
9	Repair initial inguinal hernia, age 5 years or over; reducible	49505	914	1.0%	
10	Transfusion, blood or blood components	36430	855	0.9%	
11	Left heart catheterization, retrograde, from the brachial artery, axillary artery or femoral artery; percutaneous	93510	735	0.8%	
12	Fluoroscopic (X-ray) guided spinal therapeutic injection procedures	76005	636	0.7%	
13	Neuroplasty and/or transposition; median nerve release at carpal tunnel	64721	620	0.7%	
14	Basic metabolic panel total calcium	80048	450	0.5%	
15	Injection of Other Agent, including catheter	62319	375	0.4%	
16	Insertion of tunneled central venous catheter	36561	311	0.3%	
17	Insertion or replacement of pacemaker pulse generator only; dual chamber.	33213	307	0.3%	
18	Vitrectomy (removal of Vitreous Humor from eye), pars plana approach	67038	292	0.3%	
19	Laparoscopic Cholecystectomy	47562	287	0.3%	
20	Surgical pathology (Level III), gross and microscopic examination	88304	285	0.3%	
			Top 20 AS Events Ages 65+:	65,395	69.9%
			All other AS Events Ages 65+:	28,219	30.1%
			Total AS Events Ages 65+:	93,614	100%

Source: 2006 OSHPD Orange County Ambulatory Surgical Data (Includes OC and Non-OC Residents)

Table 8.6
Twenty Most Prevalent Ambulatory Surgical Procedures (2006)
Males (n=131,798)

Rank	CPT-4 Description	CPT-4 Code	Number of Procedures 2006	Percent of AS Events Among Males	
1	Colonoscopy, flexible, proximal to splenic flexure; w/without biopsy	45378, 45380, 45385, 45384, 45383	28,462	21.60%	
2	Upper Gastrointestinal (GI) endoscopy, w/without biopsy	43239, 43235	9,251	7.02%	
3	Cataract removal w/insertion of intraocular lens prosthesis	66984	7,671	5.82%	
4	Epidural pain block: Injection of anesthetic substance (including narcotics)	62311, 64483, 62310	6,428	4.88%	
5	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving) or ACL	29881, 29880, 29888	5,144	3.90%	
6	Surgical pathology (Level IV), gross and microscopic examination	88305	3,247	2.46%	
7	Repair initial inguinal hernia, age 5 years or over; reducible	49505	3,058	2.32%	
8	Routine venipuncture (blood draw) or finger/heel/ear stick for collection of specimen(s).	36415	2,391	1.81%	
9	Tympanostomy (insertion of ventilating tube in eardrum)	69436	1,291	0.98%	
10	Arthroscopy, shoulder, surgical; decompression of subacromial space	29826	1,254	0.95%	
11	Surgical pathology (Level III), gross and microscopic examination	88304	1,031	0.78%	
12	Left heart catheterization, retrograde, from the brachial artery, axillary artery or femoral artery; percutaneous	93510	946	0.72%	
13	Blood glucose monitoring device(s) cleared by the FDA specifically for home use	82962	899	0.68%	
14	Septoplasty (straightening of nasal partition) or submucous resection, w/without cartilage scoring	30520	884	0.67%	
15	Tonsillectomy and adenoidectomy	42820	853	0.65%	
16	Lithotripsy (kidney stone break up), extracorporeal shock wave	50590	801	0.61%	
17	Surgery on anterior segment of eye (Unlisted procedure)	66999	785	0.60%	
18	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	20680	772	0.59%	
19	Neuroplasty and/or transposition; median nerve at carpal tunnel.	64721	717	0.54%	
20	Transfusion, blood or blood components.	36430	614	0.47%	
			Top 20 AS Events All Males:	76,499	58.04%
			All other AS Events All Males:	55,299	41.96%
			Total AS Events All Males:	131,798	100%

Source: 2006 OSHPD Orange County Ambulatory Surgical Data (Includes OC and Non-OC Residents)

Table 8.7
Twenty Most Prevalent Ambulatory Surgical Procedures (2006)
Females (n=168,595)

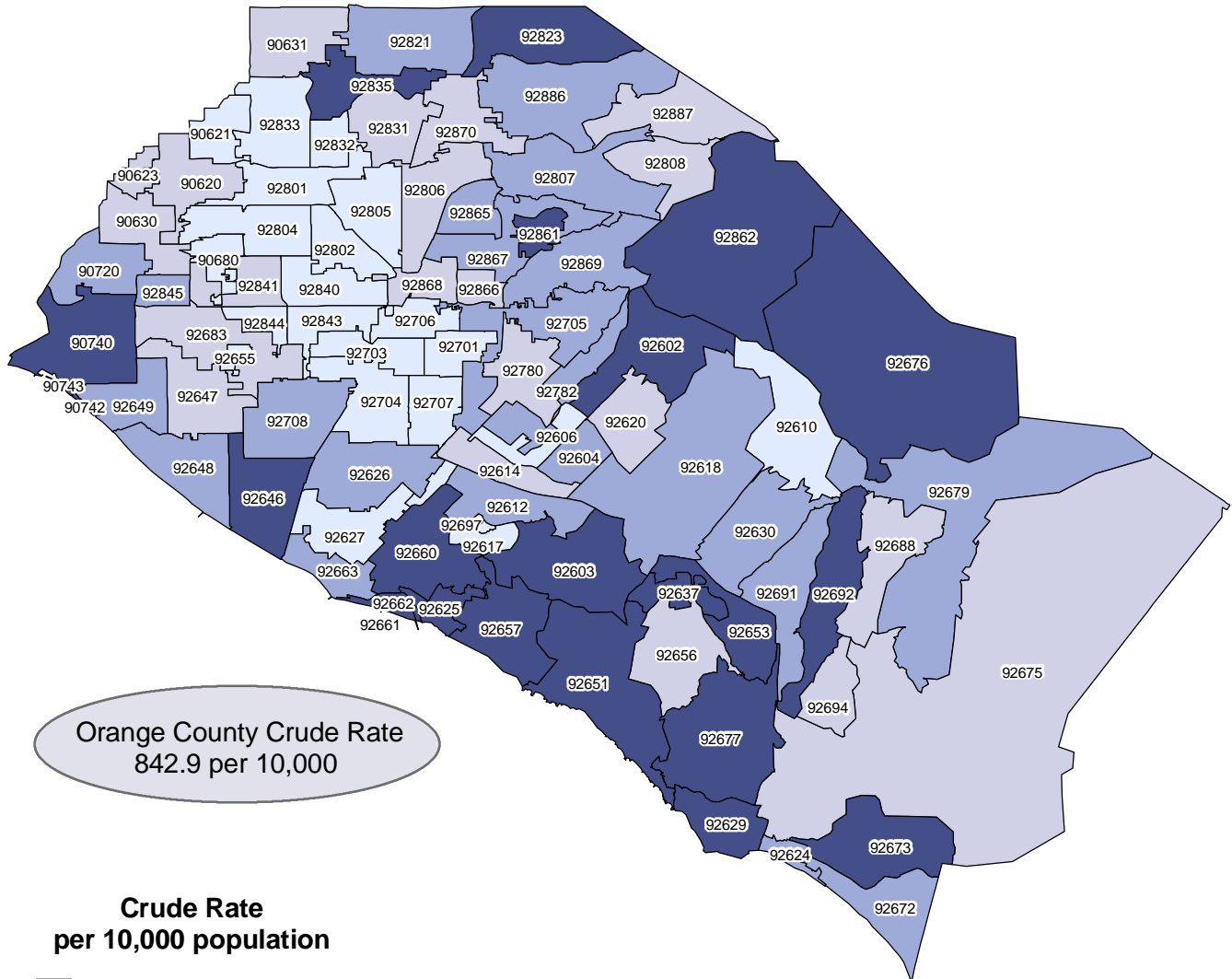
Rank	CPT-4 Description	CPT-4 Code	Number of Procedures 2006	Percent of AS Events Among Females	
1	Colonoscopy, flexible, proximal to splenic flexure; w/without biopsy	45378, 45380, 45385, 45384, 45383	31,588	18.7%	
2	Upper Gastrointestinal (GI) endoscopy, w/without biopsy	43239, 43235	12,595	7.5%	
3	Cataract removal w/insertion of intraocular lens prosthesis	66984	11,323	6.7%	
4	Epidural pain block: Injection of anesthetic substance (including narcotics)	62311, 64483, 62310	8,042	4.8%	
5	Surgical pathology (Level IV), gross and microscopic examination	88305	4,584	2.7%	
6	Arthroscopy, knee, surgical; with meniscectomy (medial or lateral, including any meniscal shaving) or ACL	29881, 29880	3,370	2.0%	
7	Hysteroscopy with biopsy/polypectomy, w/without biopsy of endometrium or polyp removal	58558, 58563	3,096	1.8%	
8	Routine venipuncture (blood draw) or finger/heel/ear stick for collection of specimen(s).	36415	2,949	1.7%	
9	Mammoplasty, augmentation; with prosthetic implant	19325	2,332	1.4%	
10	Treatment of missed abortion, completed surgically; first trimester	59820	1,923	1.1%	
11	Laparoscopic cholecystectomy (removal of gall bladder)	47562	1,522	0.9%	
12	Neuroplasty and/or transposition; median nerve release at carpal tunnel	64721	1,520	0.9%	
13	Surgical pathology (Level III), gross and microscopic examination	88304	1,237	0.7%	
14	Hallux valgus (bunion) correction, with or without sesamoidectomy; with metatarsal osteotomy	28296	1,181	0.7%	
15	Excision of cyst, fibroadenoma, or other benign or malignant tumor aberrant breast tissue, duct or nipple lesion	19120	1,079	0.6%	
16	Maternity care and delivery (unlisted procedure)	59899	1,053	0.6%	
17	Follicle puncture for oocyte retrieval, any method	58970	954	0.6%	
18	Glucose, blood by glucose monitoring device(s)	82962	941	0.6%	
19	Fluoroscopic guidance/localization of needle/catheter tip for spine/paraspinous diagnostic/therapeutic injection	76005	939	0.6%	
20	Shoulder arthroscopy/surgery	29826	912	0.6%	
			Top 20 AS Events All Females:	93,140	55.3%
			All other AS Events All Females:	75,455	44.7%
			Total AS Events All Females:	168,595	100%

Source: 2006 OSHPD Orange County Ambulatory Surgical Data (Includes OC and Non-OC Residents)

Table 8.8
Orange County Ambulatory Surgical Procedures (2006)
All Ages
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population	Crude Rate (Per 10,000)	ZIP Code	Number of Procedures 2006	2006 Population	Crude Rate (Per 10,000)
90620	3,337	44,880	743.5	92679	3,791	36,741	1,031.8
90621	1,743	35,743	487.6	92683	7,377	90,246	817.4
90623	1,302	15,948	816.4	92688	3,734	47,986	778.1
90630	3,959	48,313	819.4	92691	5,307	47,521	1,116.8
90631	5,089	68,833	739.3	92692	6,201	48,692	1,273.5
90680	1,695	31,312	541.3	92694	1,665	20,000	832.5
90720	2,335	22,202	1,051.7	92697	14	806	173.7
90740	4,021	24,199	1,661.6	92701	2,117	58,108	364.3
90742	132	801	1,647.9	92703	2,910	73,888	393.8
90743	54	408	1,323.5	92704	4,403	91,187	482.9
92602	1,503	7,860	1,912.2	92705	4,245	44,861	946.3
92603	1,755	12,090	1,451.6	92706	2,290	37,028	618.5
92604	2,886	30,438	948.2	92707	2,966	65,093	455.7
92606	1,458	22,223	656.1	92708	5,976	55,968	1,067.8
92610	862	14,680	587.2	92780	3,910	55,466	704.9
92612	2,316	26,167	885.1	92782	1,735	20,172	860.1
92614	1,985	27,163	730.8	92801	3,420	58,173	587.9
92617	325	12,709	255.7	92802	2,214	46,438	476.8
92618	926	9,276	998.3	92804	5,012	89,141	562.3
92620	2,984	41,485	719.3	92805	2,977	70,773	420.6
92624	859	7,939	1,082.0	92806	2,431	33,932	716.4
92625	2,088	12,306	1,696.7	92807	3,702	34,537	1,071.9
92626	4,306	48,466	888.5	92808	1,737	21,560	805.7
92627	4,038	63,827	632.6	92821	3,286	37,125	885.1
92629	3,542	28,612	1,237.9	92823	296	2,098	1,410.9
92630	5,786	59,520	972.1	92831	2,556	35,972	710.6
92637	4,340	16,285	2,665.0	92832	1,519	25,861	587.4
92646	6,504	56,794	1,145.2	92833	3,351	50,543	663.0
92647	4,804	60,355	796.0	92835	2,742	22,726	1,206.5
92648	4,662	46,773	996.7	92840	3,487	52,449	664.8
92649	3,814	33,966	1,122.9	92841	2,200	31,720	693.6
92651	3,066	25,064	1,223.3	92843	2,519	45,395	554.9
92653	4,296	32,263	1,331.6	92844	1,419	24,687	574.8
92655	607	8,930	679.7	92845	1,696	15,593	1,087.7
92656	3,922	50,569	775.6	92861	842	6,036	1,395.0
92657	1,249	7,536	1,657.4	92862	9	19	4,736.8
92660	4,773	33,849	1,410.1	92865	1,549	18,129	854.4
92661	473	3,882	1,218.4	92866	1,195	16,163	739.3
92662	514	2,831	1,815.6	92867	3,743	43,612	858.3
92663	2,428	21,666	1,120.6	92868	1,800	24,224	743.1
92672	4,535	40,477	1,120.4	92869	3,462	39,219	882.7
92673	3,517	22,009	1,598.0	92870	4,340	53,282	814.5
92675	3,908	52,504	744.3	92886	4,606	44,422	1,036.9
92676	243	1,824	1,332.2	92887	1,920	23,783	807.3
92677	7,596	65,907	1,152.5	Unknown	2,922		
<i>Sources: 2006 Claritas Population by Zip Code 2006 OSHPD Orange County Ambulatory Surgical Data</i>				Countywide	258,130	3,062,259	842.9

Ambulatory Surgical Procedures (2006) All Ages Rate of Procedures by ZIP Code of Residence

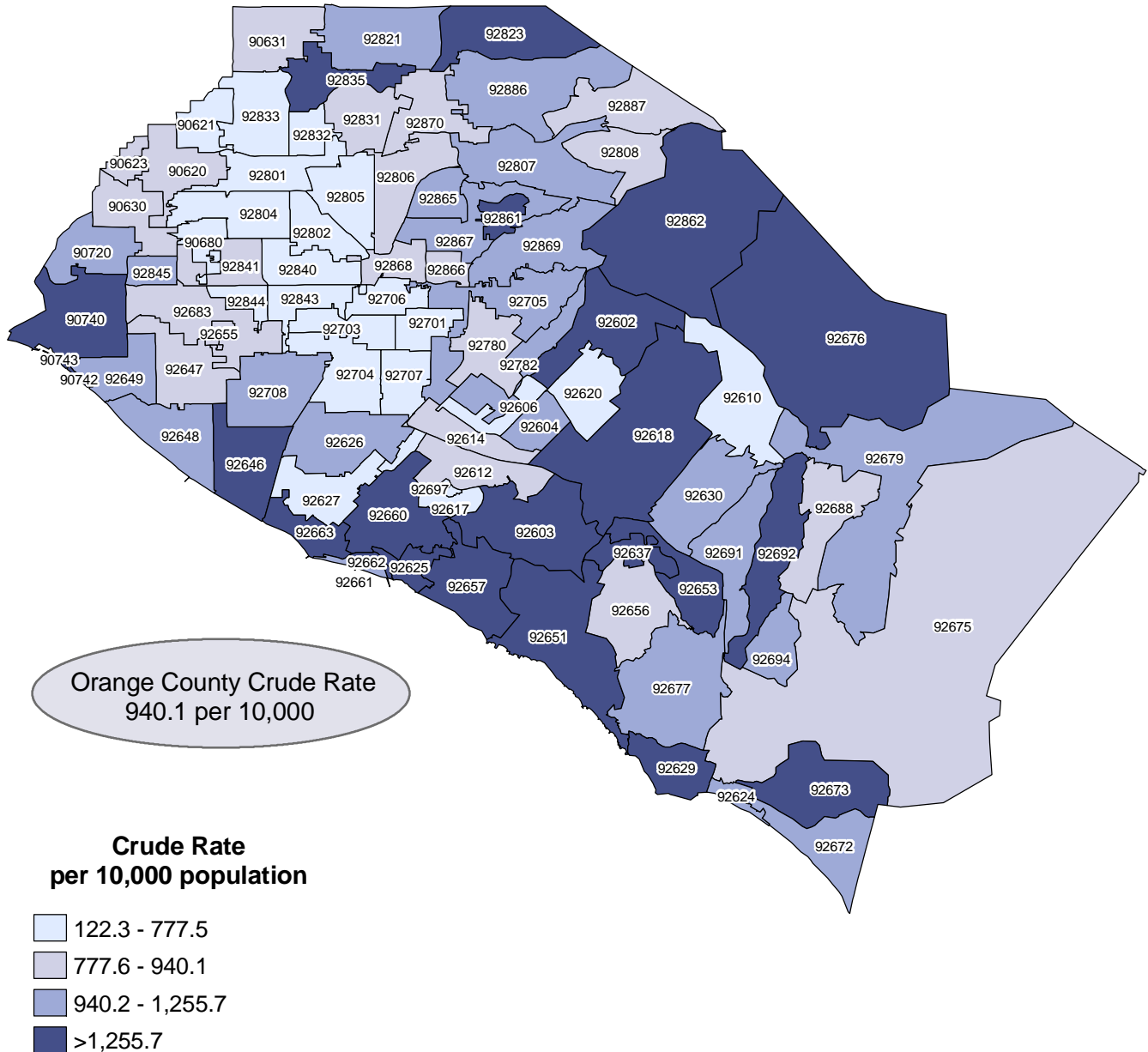


This map does not display cases with an unknown ZIP Code or P.O. Box (1.1%; n=2,922/258,130)
 Quality Management, Orange County Health Care Agency, 2008
 Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.9
Orange County Ambulatory Surgical Procedures (2006)
Females
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population of Females	Crude Rate (Per 10,000)	ZIP Code	Number of Procedures 2006	2006 Population of Females	Crude Rate (Per 10,000)
90620	1,898	22,666	837.4	92679	1,989	18,363	1,083.2
90621	970	17,831	544.0	92683	4,144	45,002	920.8
90623	713	8,136	876.4	92688	2,182	24,378	895.1
90630	2,316	24,750	935.8	92691	2,877	24,151	1,191.3
90631	2,836	34,733	816.5	92692	3,373	24,983	1,350.1
90680	1,022	15,489	659.8	92694	943	9,818	960.5
90720	1,276	11,510	1,108.6	92697	5	409	122.2
90740	2,444	13,555	1,803.0	92701	1,177	27,641	425.8
90742	56	362	1,547.0	92703	1,659	34,665	478.6
90743	30	189	1,587.3	92704	2,565	44,385	577.9
92602	863	3,966	2,176.0	92705	2,323	22,592	1,028.2
92603	980	6,253	1,567.2	92706	1,318	18,246	722.4
92604	1,682	15,748	1,068.1	92707	1,619	31,339	516.6
92606	818	11,312	723.1	92708	3,344	28,529	1,172.1
92610	495	7,339	674.5	92780	2,190	28,169	777.5
92612	1,249	13,500	925.2	92782	971	10,236	948.6
92614	1,159	13,970	829.6	92801	1,953	29,231	668.1
92617	177	6,563	269.7	92802	1,248	22,930	544.3
92618	543	4,298	1,263.4	92804	2,906	44,809	648.5
92620	1,620	21,253	762.2	92805	1,727	34,190	505.1
92624	477	3,888	1,226.9	92806	1,330	16,813	791.1
92625	1,191	6,440	1,849.4	92807	2,040	17,647	1,156.0
92626	2,311	24,071	960.1	92808	999	10,879	918.3
92627	2,228	30,691	725.9	92821	1,810	18,934	956.0
92629	1,858	14,358	1,294.1	92823	158	1,082	1,460.3
92630	3,289	30,177	1,089.9	92831	1,446	17,882	808.6
92637	2,777	10,668	2,603.1	92832	871	12,834	678.7
92646	3,674	28,650	1,282.4	92833	1,849	25,485	725.5
92647	2,730	29,759	917.4	92835	1,526	11,887	1,283.8
92648	2,617	23,199	1,128.1	92840	2,028	26,346	769.8
92649	2,061	16,906	1,219.1	92841	1,267	15,864	798.7
92651	1,564	12,304	1,271.1	92843	1,418	22,369	633.9
92653	2,465	16,631	1,482.2	92844	796	12,118	656.9
92655	370	4,424	836.3	92845	954	7,986	1,194.6
92656	2,302	25,978	886.1	92861	443	3,000	1,476.7
92657	653	3,848	1,697.0	92862	5	7	7,142.9
92660	2,592	17,348	1,494.1	92865	876	9,204	951.8
92661	225	1,840	1,222.8	92866	746	8,249	904.4
92662	272	1,571	1,731.4	92867	2,125	21,782	975.6
92663	1,303	10,377	1,255.7	92868	1,052	11,227	937.0
92672	2,384	19,831	1,202.2	92869	1,900	19,702	964.4
92673	1,900	10,929	1,738.5	92870	2,470	26,831	920.6
92675	2,094	26,671	785.1	92886	2,456	22,661	1,083.8
92676	135	891	1,515.2	92887	1,054	12,045	875.1
92677	4,135	33,771	1,224.4	Unknown	1,473		
Sources: 2006 Claritas Population by Zip Code				Countywide	144,359	1,535,544	940.1
2006 OSHPD Orange County Ambulatory Surgical Data							

Ambulatory Surgical Procedures (2006) Females Rate of Procedures by ZIP Code of Residence

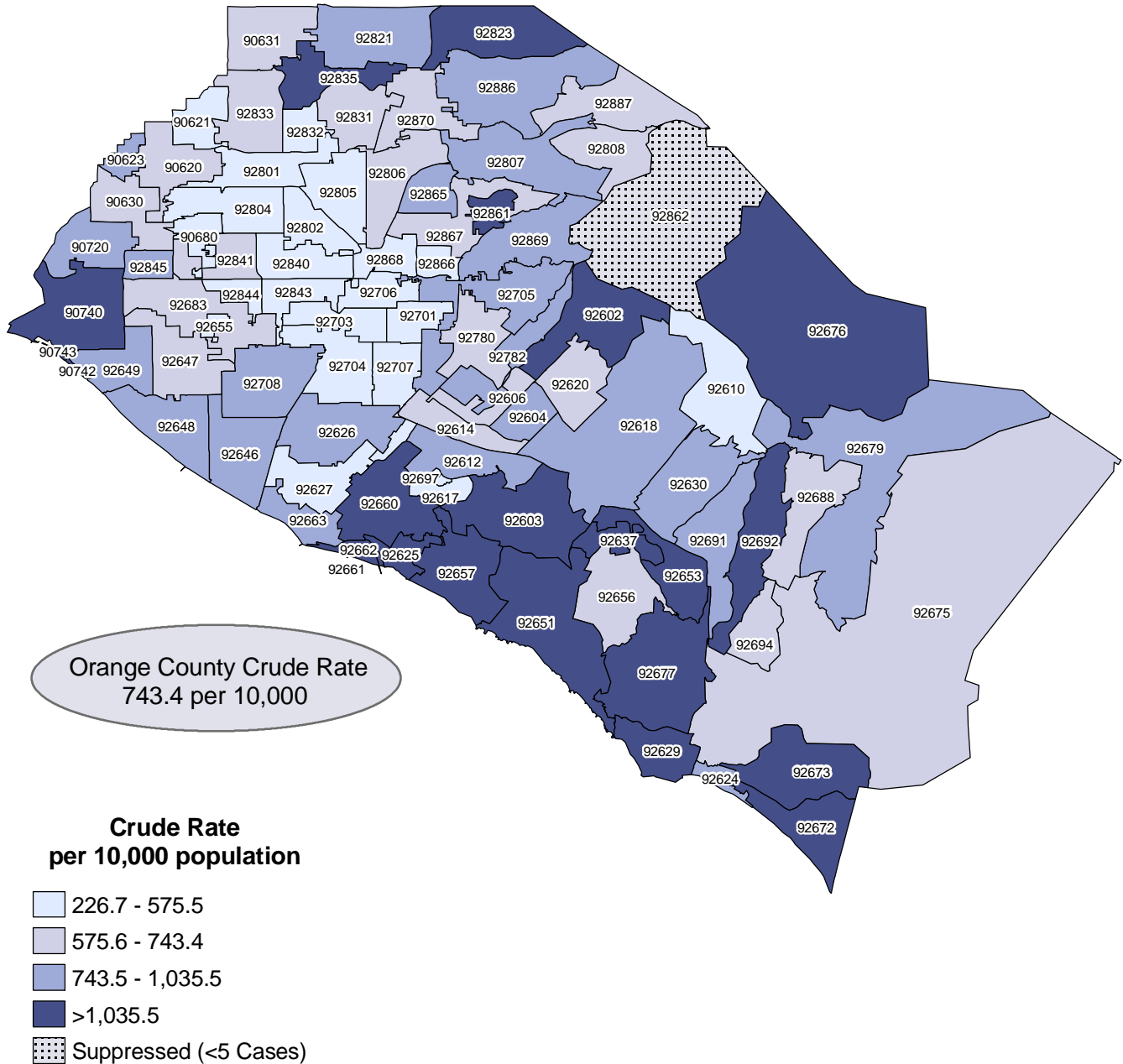


This map does not display cases with an unknown ZIP Code or P.O. Box (1%; n=1,473/144,359)
 Quality Management, Orange County Health Care Agency, 2008
 Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.10
Orange County Ambulatory Surgical Procedures (2006)
Males
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population of Males	Crude Rate (Per 10,000)	ZIP Code	Number of Procedures 2006	2006 Population of Males	Crude Rate (Per 10,000)
90620	1,437	22,214	646.9	92679	1,797	18,378	977.8
90621	769	17,912	429.3	92683	3,229	45,244	713.7
90623	589	7,812	754.0	92688	1,545	23,608	654.4
90630	1,639	23,563	695.6	92691	2,420	23,370	1,035.5
90631	2,250	34,100	659.8	92692	2,821	23,709	1,189.8
90680	673	15,823	425.3	92694	720	10,182	707.1
90720	1,058	10,692	989.5	92697	9	397	226.7
90740	1,574	10,644	1,478.8	92701	937	30,467	307.5
90742	76	439	1,731.2	92703	1,250	39,223	318.7
90743	24	219	1,095.9	92704	1,837	46,802	392.5
92602	639	3,894	1,641.0	92705	1,921	22,269	862.6
92603	772	5,837	1,322.6	92706	970	18,782	516.5
92604	1,204	14,690	819.6	92707	1,347	33,754	399.1
92606	637	10,911	583.8	92708	2,630	27,439	958.5
92610	365	7,341	497.2	92780	1,718	27,297	629.4
92612	1,060	12,667	836.8	92782	761	9,936	765.9
92614	823	13,193	623.8	92801	1,464	28,942	505.8
92617	148	6,146	240.8	92802	964	23,508	410.1
92618	383	4,978	769.4	92804	2,102	44,332	474.1
92620	1,355	20,232	669.7	92805	1,248	36,583	341.1
92624	382	4,051	943.0	92806	1,098	17,119	641.4
92625	896	5,866	1,527.4	92807	1,653	16,890	978.7
92626	1,994	24,395	817.4	92808	734	10,681	687.2
92627	1,807	33,136	545.3	92821	1,470	18,191	808.1
92629	1,678	14,254	1,177.2	92823	138	1,016	1,358.3
92630	2,488	29,343	847.9	92831	1,106	18,090	611.4
92637	1,562	5,617	2,780.8	92832	648	13,027	497.4
92646	2,825	28,144	1,003.8	92833	1,496	25,058	597.0
92647	2,071	30,596	676.9	92835	1,210	10,839	1,116.3
92648	2,043	23,574	866.6	92840	1,459	26,103	558.9
92649	1,750	17,060	1,025.8	92841	931	15,856	587.2
92651	1,500	12,760	1,175.5	92843	1,098	23,026	476.9
92653	1,823	15,632	1,166.2	92844	622	12,569	494.9
92655	237	4,506	526.0	92845	742	7,607	975.4
92656	1,611	24,591	655.1	92861	399	3,036	1,314.2
92657	596	3,688	1,616.1	92862	4	12	3,333.3
92660	2,176	16,501	1,318.7	92865	670	8,925	750.7
92661	248	2,042	1,214.5	92866	448	7,914	566.1
92662	241	1,260	1,912.7	92867	1,612	21,830	738.4
92663	1,124	11,289	995.7	92868	748	12,997	575.5
92672	2,147	20,646	1,039.9	92869	1,555	19,517	796.7
92673	1,614	11,080	1,456.7	92870	1,859	26,451	702.8
92675	1,807	25,833	699.5	92886	2,140	21,761	983.4
92676	108	933	1,157.6	92887	862	11,738	734.4
92677	3,453	32,136	1,074.5	Unknown	1,445		
Sources: 2006 Claritas Population by Zip Code				Countywide	113,493	1,526,715	743.4
2006 OSHPD Orange County Ambulatory Surgical Data							

Ambulatory Surgical Procedures (2006) Males Rate of Procedures by ZIP Code of Residence

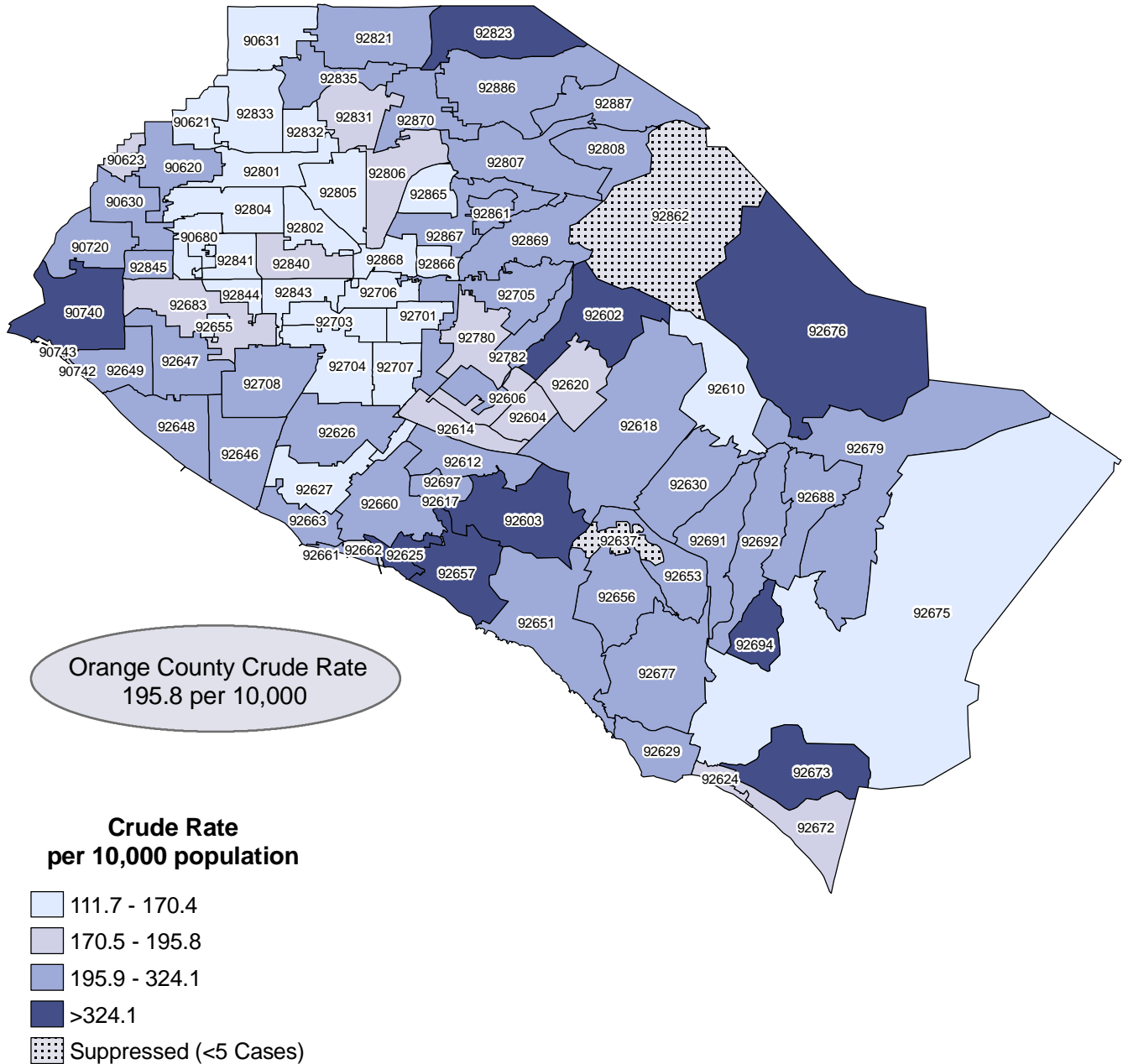


This map does not display cases with an unknown ZIP Code or P.O. Box (1.3%; n=1,445/113,493)
 Quality Management, Orange County Health Care Agency, 2008
 Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.11
Orange County Ambulatory Surgical Procedures (2006)
Ages 0 to 17
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population of 0-17 Yrs	Crude Rate (Per 10,000)	ZIP Code	Number of Procedures 2006	2006 Population of 0-17 Yrs	Crude Rate (Per 10,000)
90620	235	11,820	198.8	92679	327	12,799	255.5
90621	124	11,105	111.7	92683	420	23,618	177.8
90623	62	3,468	178.8	92688	349	15,845	220.3
90630	271	11,974	226.3	92691	288	12,065	238.7
90631	318	19,359	164.3	92692	308	13,036	236.3
90680	125	9,265	134.9	92694	229	6,595	347.2
90720	159	5,177	307.1	92697	1	36	277.8
90740	97	2,993	324.1	92701	253	21,162	119.6
90742	2	92	217.4	92703	337	24,298	138.7
90743	3	79	379.7	92704	406	28,988	140.1
92602	122	2,470	493.9	92705	261	12,460	209.5
92603	93	2,695	345.1	92706	180	12,142	148.2
92604	134	7,178	186.7	92707	291	21,232	137.1
92606	107	5,548	192.9	92708	296	12,616	234.6
92610	72	4,896	147.1	92780	279	15,716	177.5
92612	83	3,974	208.9	92782	151	5,022	300.7
92614	120	6,488	185.0	92801	301	18,159	165.8
92617	33	1,131	291.8	92802	213	14,775	144.2
92618	53	1,739	304.8	92804	351	25,892	135.6
92620	213	11,334	187.9	92805	322	23,980	134.3
92624	34	1,737	195.7	92806	173	9,511	181.9
92625	60	1,765	339.9	92807	187	7,850	238.2
92626	223	9,963	223.8	92808	134	6,156	217.7
92627	268	16,643	161.0	92821	210	8,872	236.7
92629	134	5,608	238.9	92823	22	472	466.1
92630	329	15,388	213.8	92831	150	7,672	195.5
92637	0	36	0.0	92832	109	7,299	149.3
92646	366	12,298	297.6	92833	209	13,564	154.1
92647	309	15,405	200.6	92835	127	4,827	263.1
92648	224	9,117	245.7	92840	258	14,408	179.1
92649	161	6,567	245.2	92841	143	8,557	167.1
92651	105	4,097	256.3	92843	191	13,887	137.5
92653	210	8,028	261.6	92844	91	6,866	132.5
92655	33	2,444	135.0	92845	106	3,777	280.6
92656	349	13,981	249.6	92861	31	1,274	243.3
92657	73	1,934	377.5	92862	1	9	1,111.1
92660	201	6,896	291.5	92865	80	4,873	164.2
92661	10	467	214.1	92866	59	4,293	137.4
92662	3	280	107.1	92867	270	12,050	224.1
92663	75	2,815	266.4	92868	108	6,337	170.4
92672	170	8,961	189.7	92869	216	10,166	212.5
92673	214	6,217	344.2	92870	283	13,858	204.2
92675	190	13,711	138.6	92886	326	11,096	293.8
92676	16	359	445.7	92887	148	6,905	214.3
92677	386	17,339	222.6	Unknown	92		
<i>Sources: 2006 Claritas Population by Zip Code 2006 OSHPD Orange County Ambulatory Surgical Data</i>				Countywide	15,856	809,856	195.8

Ambulatory Surgical Procedures (2006) Ages 0 to 17 Rate of Procedures by ZIP Code of Residence

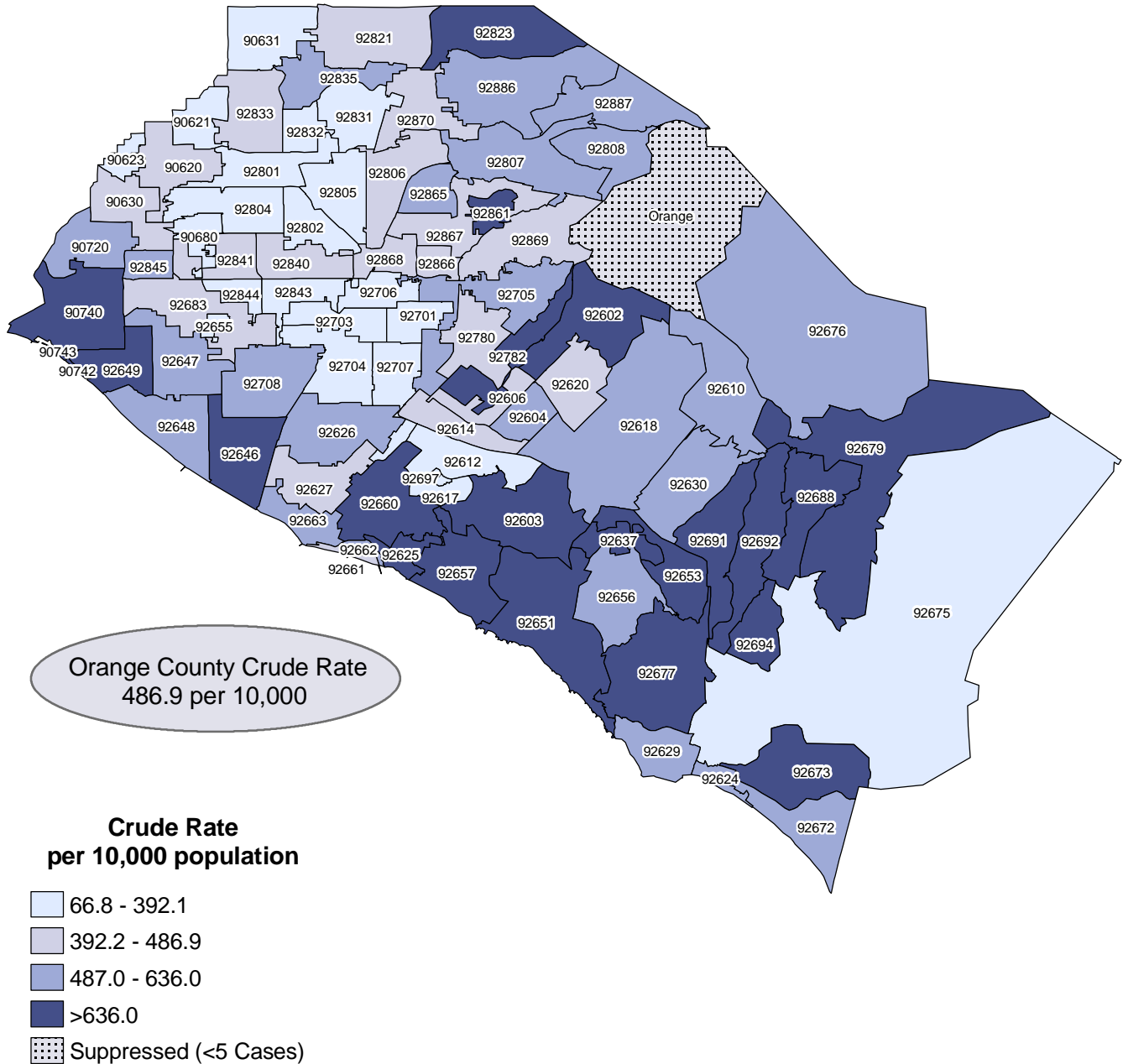


This map does not display cases with an unknown ZIP Code or P.O. Box (<1%; n=92/15,856)
Quality Management, Orange County Health Care Agency, 2008
Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.12
Orange County Ambulatory Surgical Procedures (2006)
Ages 18 to 44
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population of 18-44 Yrs	Crude Rate (Per 10,000)	ZIP Code	Number of Procedures 2006	2006 Population of 18-44 Yrs	Crude Rate (Per 10,000)
90620	782	16,792	465.7	92679	968	12,604	768.0
90621	469	15,078	311.0	92683	1,607	35,089	458.0
90623	218	5,669	384.5	92688	1,396	20,637	676.5
90630	822	17,322	474.5	92691	1,080	16,330	661.4
90631	1,038	26,470	392.1	92692	1,176	15,699	749.1
90680	451	12,776	353.0	92694	792	9,315	850.3
90720	438	7,126	614.7	92697	5	749	66.8
90740	353	5,494	642.5	92701	674	26,656	252.9
90742	26	340	764.7	92703	817	33,864	241.3
90743	18	138	1,304.3	92704	1,379	40,244	342.7
92602	670	3,561	1,881.5	92705	802	16,106	498.0
92603	463	3,683	1,257.1	92706	584	15,472	377.5
92604	556	10,626	523.2	92707	1,003	29,355	341.7
92606	451	9,938	453.8	92708	1,192	19,708	604.8
92610	337	6,277	536.9	92780	959	22,927	418.3
92612	467	12,647	369.3	92782	576	8,977	641.6
92614	528	11,077	476.7	92801	926	24,277	381.4
92617	130	10,426	124.7	92802	606	19,746	306.9
92618	295	4,904	601.5	92804	1,363	36,345	375.0
92620	642	15,096	425.3	92805	950	31,097	305.5
92624	145	2,662	544.7	92806	596	14,470	411.9
92625	317	3,953	801.9	92807	710	11,593	612.4
92626	1,121	21,807	514.1	92808	475	8,538	556.3
92627	1,256	29,490	425.9	92821	619	13,800	448.6
92629	579	9,969	580.8	92823	95	559	1,699.5
92630	1,332	22,389	594.9	92831	537	17,301	310.4
92637	24	221	1,086.0	92832	398	11,302	352.2
92646	1,312	19,970	657.0	92833	771	18,992	406.0
92647	1,259	25,390	495.9	92835	450	7,281	618.0
92648	1,210	20,098	602.0	92840	863	21,197	407.1
92649	793	12,469	636.0	92841	531	12,288	432.1
92651	497	7,810	636.4	92843	661	18,876	350.2
92653	750	10,599	707.6	92844	389	10,079	386.0
92655	135	3,609	374.1	92845	325	5,188	626.4
92656	1,425	23,296	611.7	92861	116	1,611	720.0
92657	269	2,465	1,091.3	92862	2	7	2,857.1
92660	766	9,736	786.8	92865	359	6,892	520.9
92661	81	1,705	475.1	92866	293	6,876	426.1
92662	55	893	615.9	92867	814	16,850	483.1
92663	574	9,945	577.2	92868	434	10,878	399.0
92672	750	14,938	502.1	92869	716	14,754	485.3
92673	825	6,927	1,191.0	92870	857	20,979	408.5
92675	584	16,303	358.2	92886	878	14,371	611.0
92676	39	625	624.0	92887	428	8,122	527.0
92677	1,492	22,584	660.6	Unknown	676		
<i>Sources: 2006 Claritas Population by Zip Code 2006 OSHPD Orange County Ambulatory Surgical Data</i>				Countywide	58,592	1,203,294	486.9

Ambulatory Surgical Procedures (2006) Ages 18 to 44 Rate of Procedures by ZIP Code of Residence

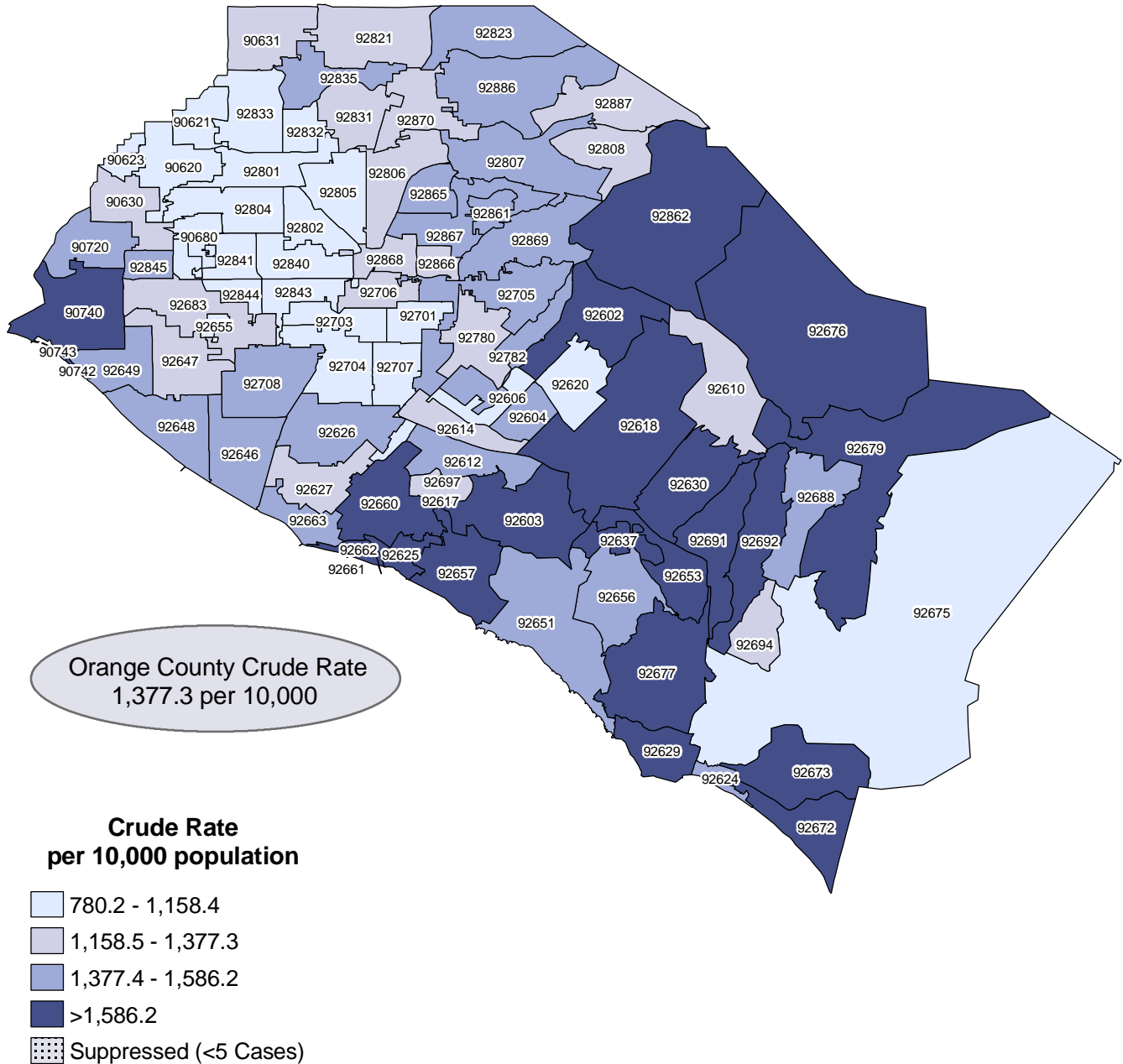


This map does not display cases with an unknown ZIP Code or P.O. Box (1.2%; n=676/58,592)
Quality Management, Orange County Health Care Agency, 2008
Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.13
Orange County Ambulatory Surgical Procedures (2006)
Ages 45 to 64
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population of 45-64 Yrs	Crude Rate (Per 10,000)	ZIP Code	Number of Procedures 2006	2006 Population of 45-64 Yrs	Crude Rate (Per 10,000)
90620	1,228	10,868	1,129.9	92679	1,986	9,714	2,044.5
90621	642	7,001	917.0	92683	2,541	20,900	1,215.8
90623	555	4,791	1,158.4	92688	1,448	9,651	1,500.4
90630	1,589	13,236	1,200.5	92691	2,428	13,725	1,769.0
90631	1,921	15,164	1,266.8	92692	2,584	13,140	1,966.5
90680	582	5,938	980.1	92694	484	3,779	1,280.6
90720	902	6,150	1,466.7	92697	4	19	2,105.3
90740	973	5,847	1,664.1	92701	632	7,834	806.7
90742	56	267	2,097.4	92703	913	11,702	780.2
90743	23	148	1,554.1	92704	1,454	16,236	895.5
92602	506	1,518	3,333.3	92705	1,586	10,545	1,504.0
92603	808	4,398	1,837.2	92706	751	6,325	1,187.4
92604	1,423	9,273	1,534.6	92707	1,000	11,029	906.7
92606	601	5,402	1,112.6	92708	2,363	16,358	1,444.6
92610	357	3,039	1,174.7	92780	1,374	11,748	1,169.6
92612	904	6,455	1,400.5	92782	682	4,946	1,378.9
92614	931	7,788	1,195.4	92801	1,100	10,562	1,041.5
92617	114	950	1,200.0	92802	733	8,173	896.9
92618	338	2,127	1,589.1	92804	1,759	17,925	981.3
92620	1,375	11,935	1,152.1	92805	926	11,616	797.2
92624	358	2,371	1,509.9	92806	863	6,844	1,261.0
92625	769	3,961	1,941.4	92807	1,640	11,011	1,489.4
92626	1,625	11,390	1,426.7	92808	755	5,579	1,353.3
92627	1,516	13,077	1,159.3	92821	1,331	10,008	1,329.9
92629	1,499	8,968	1,671.5	92823	115	725	1,586.2
92630	2,642	15,731	1,679.5	92831	922	7,338	1,256.5
92637	426	1,164	3,659.8	92832	534	4,866	1,097.4
92646	2,626	16,650	1,577.2	92833	1,176	12,657	929.1
92647	1,798	13,881	1,295.3	92835	958	6,059	1,581.1
92648	1,990	12,727	1,563.6	92840	1,211	11,333	1,068.6
92649	1,572	10,285	1,528.4	92841	777	7,250	1,071.7
92651	1,443	9,355	1,542.5	92843	848	8,905	952.3
92653	1,663	8,967	1,854.6	92844	482	5,454	883.8
92655	217	1,965	1,104.3	92845	668	4,259	1,568.4
92656	1,537	11,078	1,387.4	92861	330	2,139	1,542.8
92657	638	2,475	2,577.8	92862	5	2	25,000.0
92660	1,794	10,938	1,640.2	92865	604	4,202	1,437.4
92661	187	1,040	1,798.1	92866	435	3,382	1,286.2
92662	199	980	2,030.6	92867	1,415	10,271	1,377.7
92663	880	5,550	1,585.6	92868	634	4,619	1,372.6
92672	1,884	10,768	1,749.6	92869	1,443	10,320	1,398.3
92673	1,440	6,490	2,218.8	92870	1,678	13,068	1,284.1
92675	1,663	15,538	1,070.3	92886	2,039	13,796	1,478.0
92676	147	726	2,024.8	92887	968	7,293	1,327.3
92677	3,601	19,488	1,847.8	Unknown	1,353		
<i>Sources: 2006 Claritas Population by Zip Code 2006 OSHPD Orange County Ambulatory Surgical Data</i>				Countywide	99,874	725,165	1,377.3

Ambulatory Surgical Procedures (2006) Ages 45 to 64 Rate of Procedures by ZIP Code of Residence

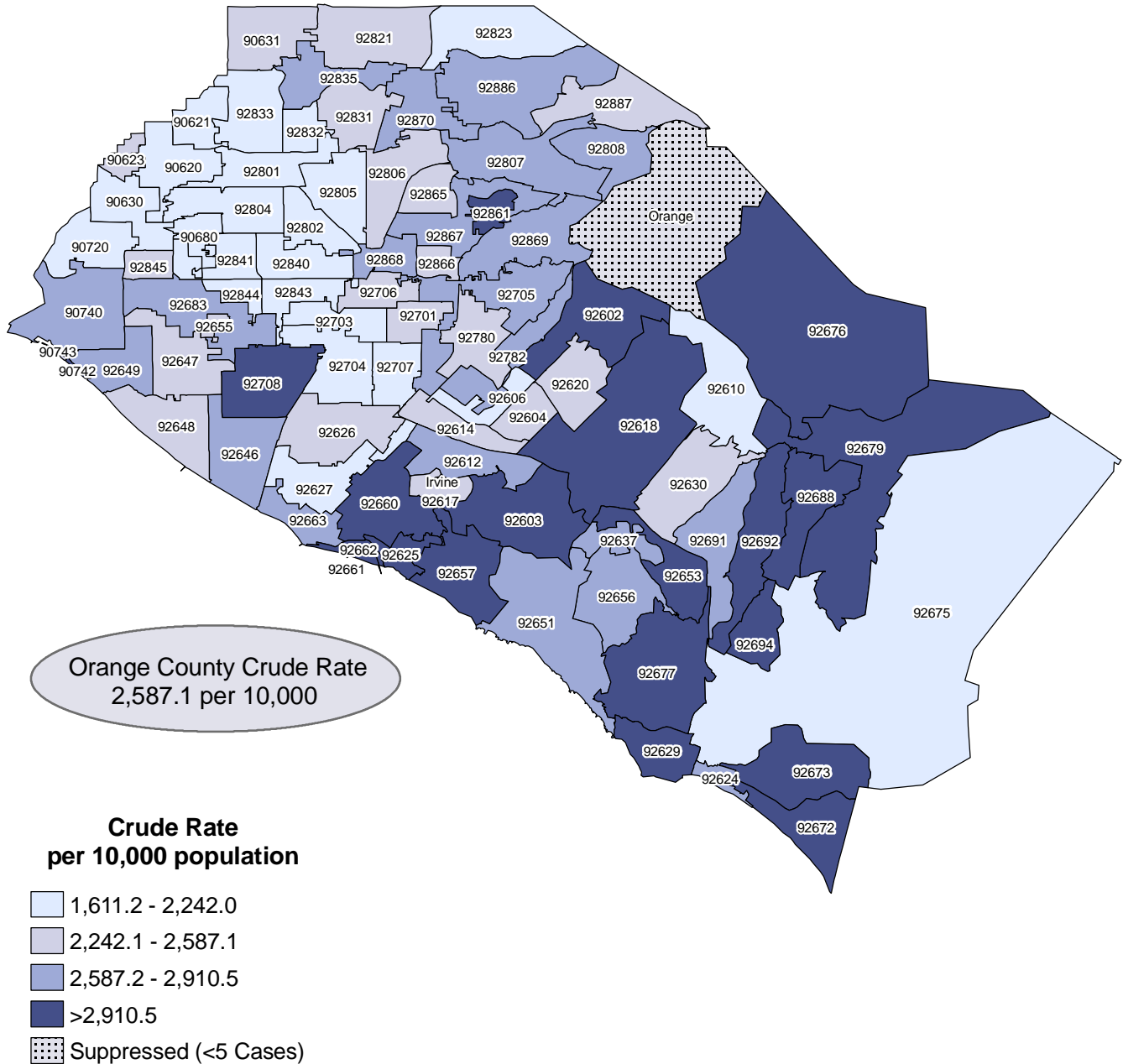


This map does not display cases with an unknown ZIP Code or P.O. Box (1.4%; n=1,353/99,874)
 Quality Management, Orange County Health Care Agency, 2008
 Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.14
Orange County Ambulatory Surgical Procedures (2006)
Ages 65+
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population of 65+	Crude Rate (Per 10,000)	ZIP Code	Number of Procedures 2006	2006 Population of 65+	Crude Rate (Per 10,000)
90620	1,092	5,400	2,022.2	92679	510	1,624	3,140.4
90621	508	2,559	1,985.2	92683	2,809	10,639	2,640.3
90623	467	2,020	2,311.9	92688	541	1,853	2,919.6
90630	1,277	5,781	2,209.0	92691	1,511	5,401	2,797.6
90631	1,812	7,840	2,311.2	92692	2,133	6,817	3,128.9
90680	537	3,333	1,611.2	92694	160	310	5,153.1
90720	836	3,749	2,229.9	92697	4	2	20,000.0
90740	2,598	9,865	2,633.6	92701	558	2,456	2,272.0
90742	48	102	4,705.9	92703	843	4,024	2,094.9
90743	10	43	2,325.6	92704	1,164	5,719	2,035.3
92602	205	311	6,591.6	92705	1,596	5,750	2,775.7
92603	391	1,314	2,975.6	92706	775	3,089	2,508.9
92604	773	3,361	2,299.9	92707	672	3,477	1,932.7
92606	299	1,335	2,239.7	92708	2,125	7,286	2,916.6
92610	96	468	2,051.3	92780	1,298	5,075	2,557.6
92612	862	3,091	2,788.7	92782	326	1,227	2,656.9
92614	406	1,810	2,243.1	92801	1,093	5,175	2,112.1
92617	48	202	2,376.2	92802	662	3,744	1,768.2
92618	240	506	4,743.1	92804	1,539	8,979	1,714.0
92620	754	3,120	2,416.7	92805	779	4,080	1,909.3
92624	322	1,169	2,754.5	92806	799	3,107	2,571.6
92625	942	2,627	3,585.8	92807	1,165	4,083	2,853.3
92626	1,337	5,306	2,519.8	92808	373	1,287	2,898.2
92627	998	4,617	2,161.6	92821	1,126	4,445	2,533.2
92629	1,330	4,067	3,270.2	92823	64	342	1,871.3
92630	1,483	6,012	2,466.7	92831	947	3,661	2,586.7
92637	3,890	14,864	2,617.1	92832	478	2,394	1,996.7
92646	2,200	7,876	2,793.3	92833	1,195	5,330	2,242.0
92647	1,438	5,679	2,532.1	92835	1,207	4,559	2,647.5
92648	1,238	4,831	2,562.6	92840	1,155	5,511	2,095.8
92649	1,288	4,645	2,772.9	92841	749	3,625	2,066.2
92651	1,021	3,802	2,685.4	92843	819	3,727	2,197.5
92653	1,673	4,669	3,583.2	92844	457	2,288	1,997.4
92655	222	912	2,434.2	92845	597	2,369	2,520.1
92656	611	2,214	2,759.7	92861	365	1,012	3,606.7
92657	269	662	4,063.4	92862	1	1	10,000.0
92660	2,012	6,279	3,204.3	92865	506	2,162	2,340.4
92661	195	670	2,910.4	92866	408	1,612	2,531.0
92662	257	678	3,790.6	92867	1,244	4,441	2,801.2
92663	899	3,356	2,678.8	92868	624	2,390	2,610.9
92672	1,731	5,810	2,979.3	92869	1,087	3,979	2,731.8
92673	1,038	2,375	4,370.5	92870	1,522	5,377	2,830.6
92675	1,471	6,952	2,115.9	92886	1,363	5,159	2,642.0
92676	41	114	3,596.5	92887	376	1,463	2,570.1
92677	2,117	6,496	3,258.9	Unknown	801		
<i>Sources: 2006 Claritas Population by Zip Code 2006 OSHPD Orange County Ambulatory Surgical Data</i>				Countywide	83,808	323,943	2,587.1

Ambulatory Surgical Procedures (2006) Ages 65+ Rate of Procedures by ZIP Code of Residence

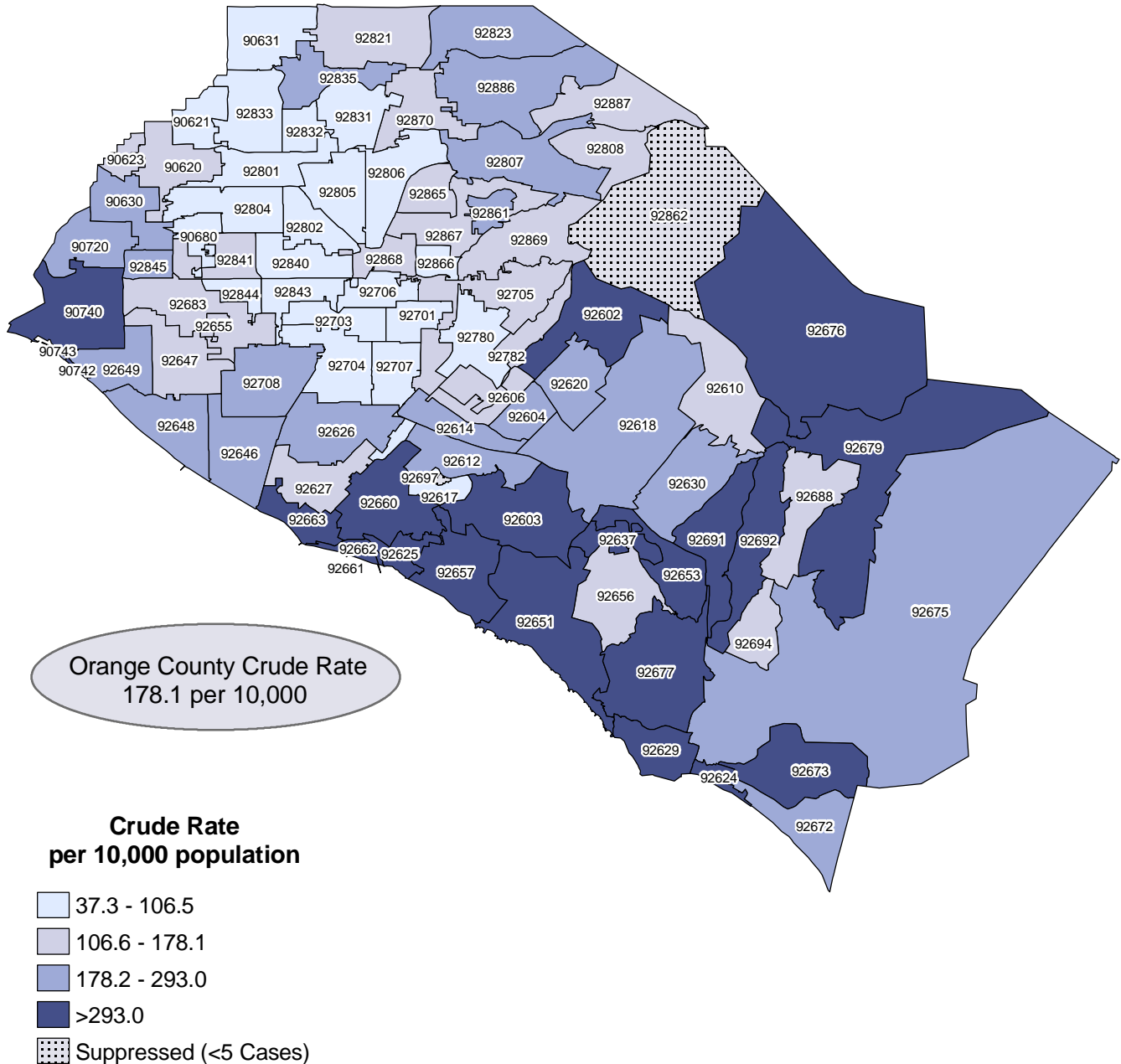


This map does not display cases with an unknown ZIP Code or P.O. Box (<1%; n=801/83,808)
 Quality Management, Orange County Health Care Agency, 2008
 Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.15
Orange County Ambulatory Surgical Procedure (2006)
Colonoscopy w/without Biopsy - All Ages
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population	Crude Rate (per 10,000)	ZIP Code	Number of Procedures 2006	2006 Population	Crude Rate (per 10,000)
90620	488	44,880	108.7	92679	1,079	36,741	293.7
90621	195	35,743	54.6	92683	1,454	90,246	161.1
90623	283	15,948	177.5	92688	799	47,986	166.5
90630	865	48,313	179.0	92691	1,468	47,521	308.9
90631	713	68,833	103.6	92692	1,746	48,692	358.6
90680	252	31,312	80.5	92694	320	20,000	160.0
90720	537	22,202	241.9	92697	2	806	24.8
90740	887	24,199	366.5	92701	217	58,108	37.3
90742	35	801	437.0	92703	375	73,888	50.8
90743	11	408	269.6	92704	681	91,187	74.7
92602	296	7,860	376.6	92705	745	44,861	166.1
92603	523	12,090	432.6	92706	323	37,028	87.2
92604	859	30,438	282.2	92707	363	65,093	55.8
92606	373	22,223	167.8	92708	1,374	55,968	245.5
92610	188	14,680	128.1	92780	579	55,466	104.4
92612	653	26,167	249.6	92782	359	20,172	178.0
92614	550	27,163	202.5	92801	450	58,173	77.4
92617	105	12,709	82.6	92802	278	46,438	59.9
92618	221	9,276	238.2	92804	717	89,141	80.4
92620	763	41,485	183.9	92805	307	70,773	43.4
92624	257	7,939	323.7	92806	347	33,932	102.3
92625	630	12,306	511.9	92807	639	34,537	185.0
92626	1,018	48,466	210.0	92808	275	21,560	127.6
92627	900	63,827	141.0	92821	545	37,125	146.8
92629	1,089	28,612	380.6	92823	45	2,098	214.5
92630	1,491	59,520	250.5	92831	383	35,972	106.5
92637	1,064	16,285	653.4	92832	190	25,861	73.5
92646	1,659	56,794	292.1	92833	487	50,543	96.4
92647	1,034	60,355	171.3	92835	422	22,726	185.7
92648	1,099	46,773	235.0	92840	512	52,449	97.6
92649	911	33,966	268.2	92841	345	31,720	108.8
92651	901	25,064	359.5	92843	378	45,395	83.3
92653	1,103	32,263	341.9	92844	235	24,687	95.2
92655	116	8,930	129.9	92845	380	15,593	243.7
92656	882	50,569	174.4	92861	165	6,036	273.4
92657	372	7,536	493.6	92862	2	19	1,052.6
92660	1,418	33,849	418.9	92865	228	18,129	125.8
92661	140	3,882	360.6	92866	162	16,163	100.2
92662	157	2,831	554.6	92867	560	43,612	128.4
92663	660	21,666	304.6	92868	260	24,224	107.3
92672	1,186	40,477	293.0	92869	574	39,219	146.4
92673	949	22,009	431.2	92870	706	53,282	132.5
92675	1,172	52,504	223.2	92886	840	44,422	189.1
92676	54	1,824	296.1	92887	363	23,783	152.6
92677	2,183	65,907	331.2	Unknown	630		
Sources: 2006 Claritas Population by Zip Code				Countywide	54,551	3,062,259	178.1
2006 OSHPD Orange County Ambulatory Surgical Data							

Ambulatory Surgical Procedures (2006) Colonoscopy w/without Biopsy - All Ages Rate of Procedures by ZIP Code of Residence

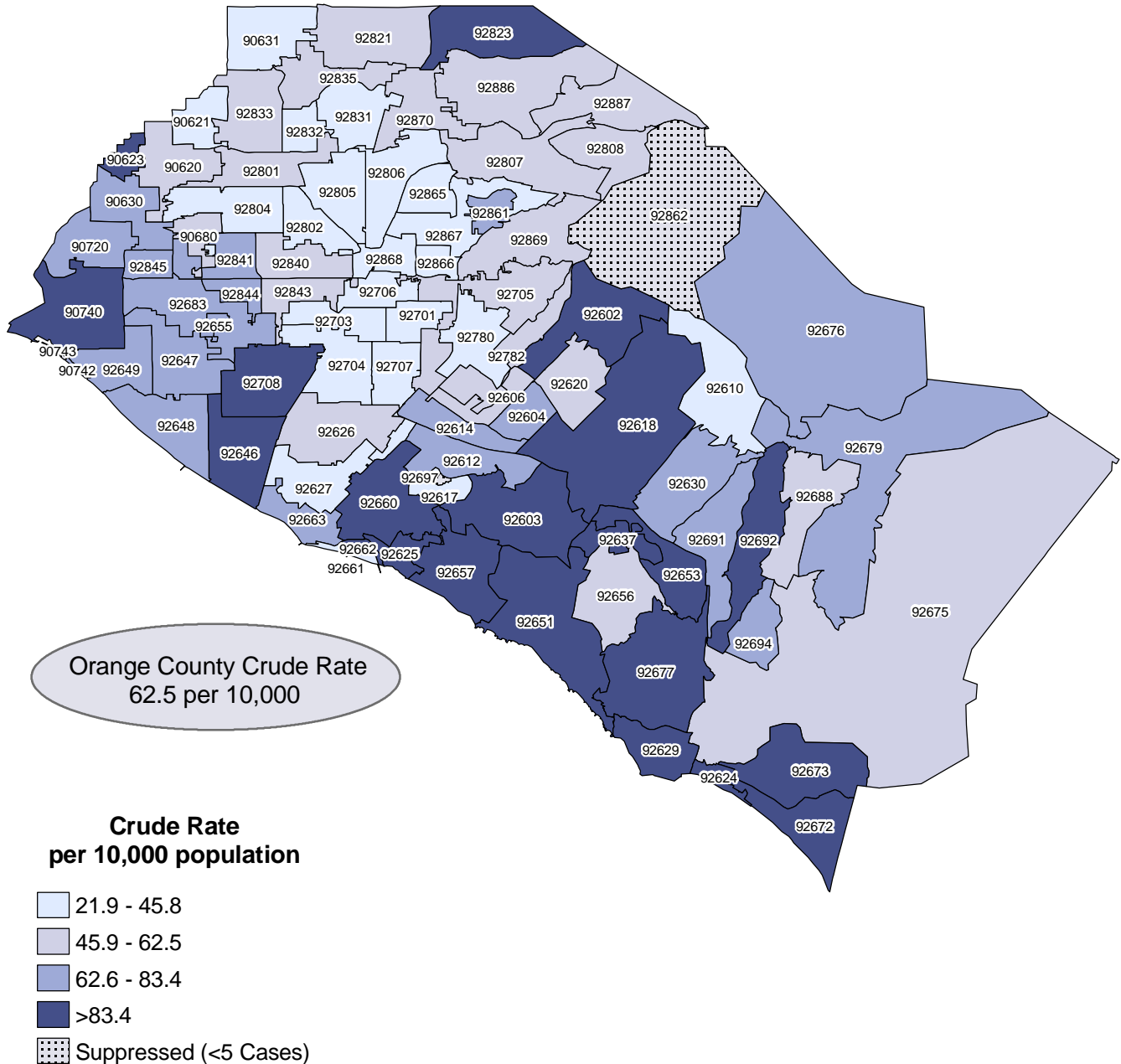


This map does not display cases with an unknown ZIP Code or P.O. Box (1.2%; n=630/54,551)
Quality Management, Orange County Health Care Agency, 2008
Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.16
Orange County Ambulatory Surgical Procedures (2006)
Upper Gastrointestinal Endoscopy - All Ages
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population	Crude Rate (per 10,000)	ZIP Code	Number of Procedures 2006	2006 Population	Crude Rate (per 10,000)
90620	259	44,880	57.7	92679	290	36,741	78.9
90621	162	35,743	45.3	92683	748	90,246	82.9
90623	151	15,948	94.7	92688	292	47,986	60.9
90630	314	48,313	65.0	92691	394	47,521	82.9
90631	305	68,833	44.3	92692	518	48,692	106.4
90680	155	31,312	49.5	92694	145	20,000	72.5
90720	152	22,202	68.5	92697	1	806	12.4
90740	281	24,199	116.1	92701	127	58,108	21.9
90742	6	801	74.9	92703	235	73,888	31.8
90743	0	408	0.0	92704	374	91,187	41.0
92602	131	7,860	166.7	92705	234	44,861	52.2
92603	150	12,090	124.1	92706	126	37,028	34.0
92604	214	30,438	70.3	92707	179	65,093	27.5
92606	130	22,223	58.5	92708	559	55,968	99.9
92610	60	14,680	40.9	92780	254	55,466	45.8
92612	189	26,167	72.2	92782	117	20,172	58.0
92614	187	27,163	68.8	92801	292	58,173	50.2
92617	37	12,709	29.1	92802	196	46,438	42.2
92618	83	9,276	89.5	92804	408	89,141	45.8
92620	255	41,485	61.5	92805	231	70,773	32.6
92624	76	7,939	95.7	92806	140	33,932	41.3
92625	104	12,306	84.5	92807	184	34,537	53.3
92626	278	48,466	57.4	92808	104	21,560	48.2
92627	254	63,827	39.8	92821	187	37,125	50.4
92629	287	28,612	100.3	92823	23	2,098	109.6
92630	441	59,520	74.1	92831	140	35,972	38.9
92637	255	16,285	156.6	92832	100	25,861	38.7
92646	490	56,794	86.3	92833	259	50,543	51.2
92647	389	60,355	64.5	92835	140	22,726	61.6
92648	336	46,773	71.8	92840	310	52,449	59.1
92649	260	33,966	76.5	92841	227	31,720	71.6
92651	210	25,064	83.8	92843	265	45,395	58.4
92653	298	32,263	92.4	92844	206	24,687	83.4
92655	63	8,930	70.5	92845	117	15,593	75.0
92656	312	50,569	61.7	92861	48	6,036	79.5
92657	107	7,536	142.0	92862	1	19	526.3
92660	305	33,849	90.1	92865	75	18,129	41.4
92661	17	3,882	43.8	92866	66	16,163	40.8
92662	27	2,831	95.4	92867	179	43,612	41.0
92663	160	21,666	73.8	92868	105	24,224	43.3
92672	367	40,477	90.7	92869	188	39,219	47.9
92673	328	22,009	149.0	92870	247	53,282	46.4
92675	322	52,504	61.3	92886	254	44,422	57.2
92676	15	1,824	82.2	92887	115	23,783	48.4
92677	612	65,907	92.9	Unknown	212		
Sources: 2006 Claritas Population by Zip Code				Countywide	19,146	3,062,259	62.5
2006 OSHPD Orange County Ambulatory Surgical Data							

Ambulatory Surgical Procedures (2006) Upper Gastrointestinal Endoscopy - All Ages Rate of Procedures by ZIP Code of Residence

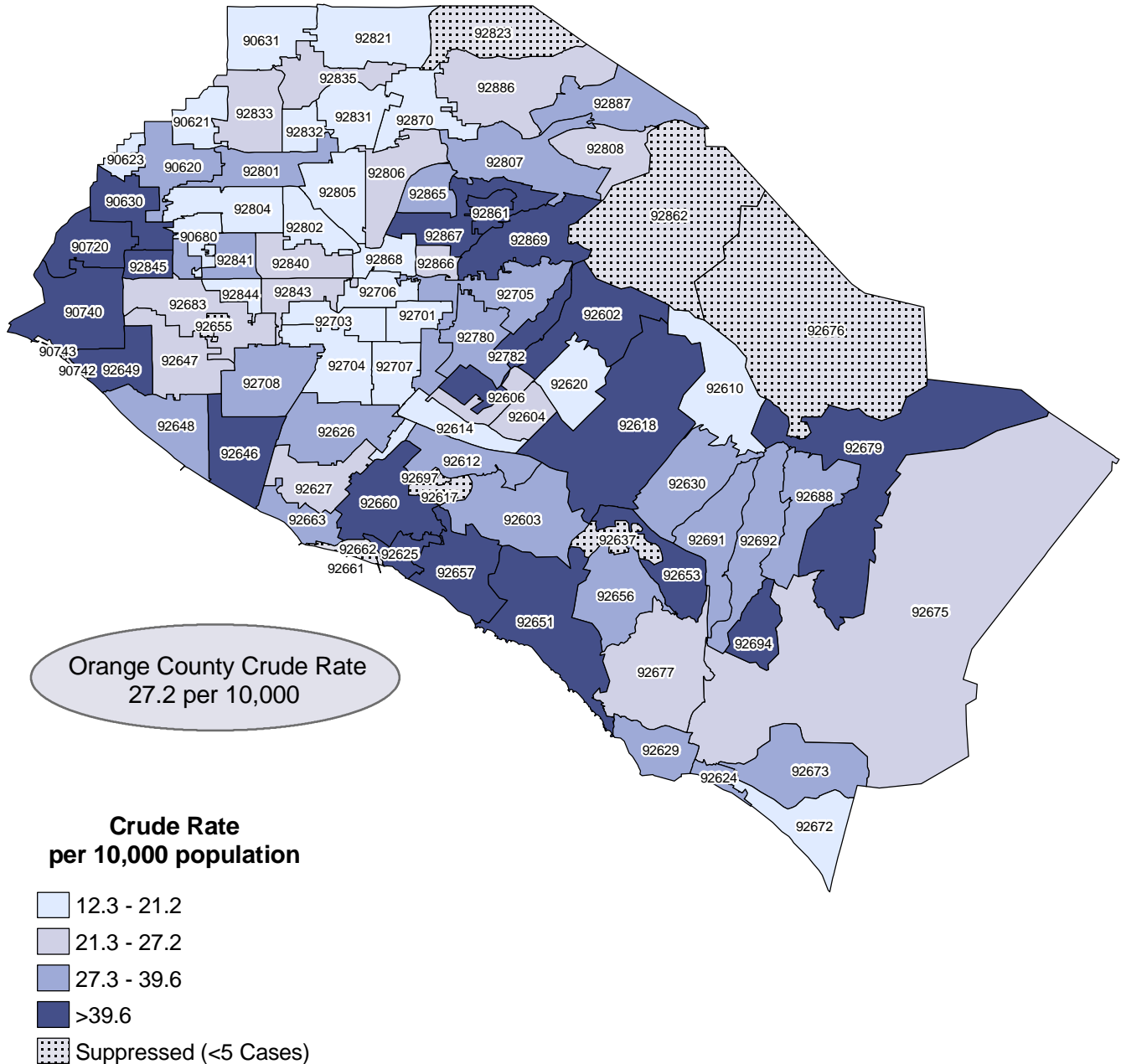


This map does not display cases with an unknown ZIP Code or P.O. Box (1.1%; n=212/19,146).
Quality Management, Orange County Health Care Agency, 2008
Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.17
Orange County Ambulatory Surgical Procedures (2006)
Tonsillectomy and/or Adenoidectomy - Ages 0 to 17
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population	Crude Rate	ZIP Code	Number of Procedures 2006	2006 Population of 0-17 Yrs	Crude Rate
90620	35	11,820	29.6	92679	55	12,799	43.0
90621	17	11,105	15.3	92683	64	23,618	27.1
90623	7	3,468	20.2	92688	54	15,845	34.1
90630	48	11,974	40.1	92691	44	12,065	36.5
90631	33	19,359	17.0	92692	39	13,036	29.9
90680	15	9,265	16.2	92694	39	6,595	59.1
90720	23	5,177	44.4	92697	0	36	0.0
90740	19	2,993	63.5	92701	39	21,162	18.4
90742	0	92	0.0	92703	36	24,298	14.8
90743	0	79	0.0	92704	40	28,988	13.8
92602	20	2,470	81.0	92705	47	12,460	37.7
92603	9	2,695	33.4	92706	17	12,142	14.0
92604	18	7,178	25.1	92707	45	21,232	21.2
92606	13	5,548	23.4	92708	50	12,616	39.6
92610	10	4,896	20.4	92780	49	15,716	31.2
92612	14	3,974	35.2	92782	23	5,022	45.8
92614	9	6,488	13.9	92801	51	18,159	28.1
92617	2	1,131	17.7	92802	26	14,775	17.6
92618	7	1,739	40.3	92804	49	25,892	18.9
92620	24	11,334	21.2	92805	41	23,980	17.1
92624	6	1,737	34.5	92806	21	9,511	22.1
92625	7	1,765	39.7	92807	22	7,850	28.0
92626	32	9,963	32.1	92808	16	6,156	26.0
92627	41	16,643	24.6	92821	15	8,872	16.9
92629	18	5,608	32.1	92823	3	472	63.6
92630	48	15,388	31.2	92831	12	7,672	15.6
92637	0	36	0.0	92832	9	7,299	12.3
92646	52	12,298	42.3	92833	29	13,564	21.4
92647	40	15,405	26.0	92835	11	4,827	22.8
92648	35	9,117	38.4	92840	36	14,408	25.0
92649	29	6,567	44.2	92841	25	8,557	29.2
92651	18	4,097	43.9	92843	31	13,887	22.3
92653	35	8,028	43.6	92844	12	6,866	17.5
92655	4	2,444	16.4	92845	16	3,777	42.4
92656	48	13,981	34.3	92861	8	1,274	62.8
92657	12	1,934	62.0	92862	0	9	0.0
92660	33	6,896	47.9	92865	18	4,873	36.9
92661	1	467	21.4	92866	11	4,293	25.6
92662	2	280	71.4	92867	49	12,050	40.7
92663	9	2,815	32.0	92868	11	6,337	17.4
92672	19	8,961	21.2	92869	54	10,166	53.1
92673	24	6,217	38.6	92870	25	13,858	18.0
92675	30	13,711	21.9	92886	24	11,096	21.6
92676	0	359	0.0	92887	22	6,905	31.9
92677	40	17,339	23.1	Unknown	10		
<i>Sources: 2006 Claritas Population by Zip Code 2006 OSHPD Orange County Ambulatory Surgical Data</i>				Countywide	2,204	809,856	27.2

Ambulatory Surgical Procedures (2006) Tonsillectomy and/or Adenoidectomy - Ages 0 to 17 Rate of Procedures by ZIP Code of Residence

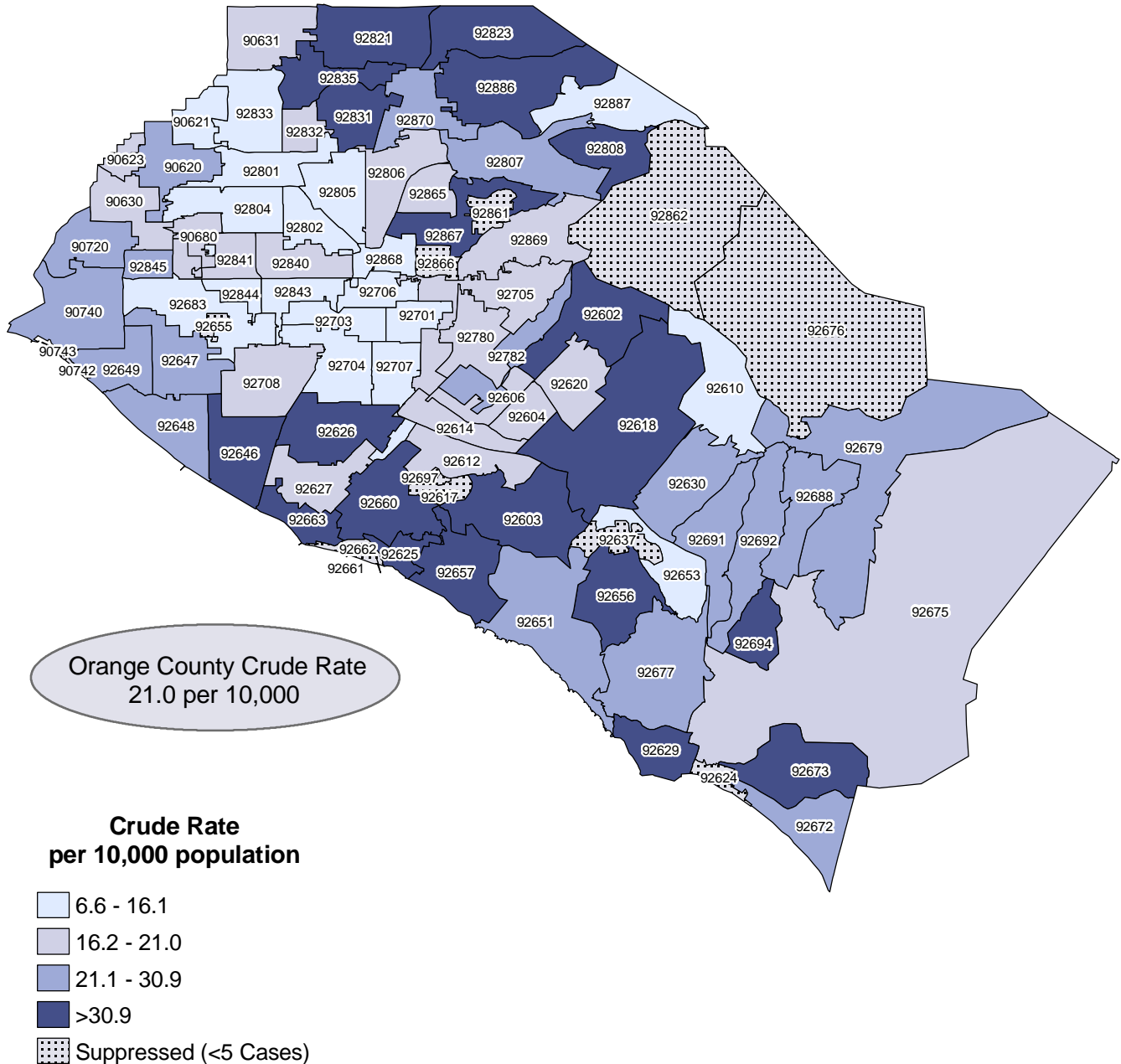


This map does not display cases with an unknown ZIP Code or P.O. Box (<1%; n=10/2,204).
Quality Management, Orange County Health Care Agency, 2008
Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.18
Orange County Ambulatory Surgical Procedures (2006)
Tympanostomy (Ear Tube Ventilation) - Ages 0 to 17
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population	Crude Rate	ZIP Code	Number of Procedures 2006	2006 Population of 0-17 Yrs	Crude Rate
90620	26	11,820	22.0	92679	29	12,799	22.7
90621	14	11,105	12.6	92683	26	23,618	11.0
90623	6	3,468	17.3	92688	36	15,845	22.7
90630	25	11,974	20.9	92691	34	12,065	28.2
90631	32	19,359	16.5	92692	30	13,036	23.0
90680	18	9,265	19.4	92694	53	6,595	80.4
90720	12	5,177	23.2	92697	0	36	0.0
90740	8	2,993	26.7	92701	29	21,162	13.7
90742	0	92	0.0	92703	16	24,298	6.6
90743	1	79	126.6	92704	30	28,988	10.3
92602	14	2,470	56.7	92705	20	12,460	16.1
92603	11	2,695	40.8	92706	17	12,142	14.0
92604	12	7,178	16.7	92707	15	21,232	7.1
92606	10	5,548	18.0	92708	24	12,616	19.0
92610	7	4,896	14.3	92780	30	15,716	19.1
92612	7	3,974	17.6	92782	15	5,022	29.9
92614	13	6,488	20.0	92801	24	18,159	13.2
92617	3	1,131	26.5	92802	23	14,775	15.6
92618	13	1,739	74.8	92804	29	25,892	11.2
92620	21	11,334	18.5	92805	23	23,980	9.6
92624	0	1,737	0.0	92806	19	9,511	20.0
92625	7	1,765	39.7	92807	24	7,850	30.6
92626	37	9,963	37.1	92808	19	6,156	30.9
92627	31	16,643	18.6	92821	34	8,872	38.3
92629	18	5,608	32.1	92823	5	472	105.9
92630	36	15,388	23.4	92831	27	7,672	35.2
92637	0	36	0.0	92832	15	7,299	20.6
92646	58	12,298	47.2	92833	20	13,564	14.7
92647	39	15,405	25.3	92835	15	4,827	31.1
92648	23	9,117	25.2	92840	24	14,408	16.7
92649	17	6,567	25.9	92841	18	8,557	21.0
92651	11	4,097	26.8	92843	15	13,887	10.8
92653	11	8,028	13.7	92844	6	6,866	8.7
92655	1	2,444	4.1	92845	10	3,777	26.5
92656	62	13,981	44.3	92861	1	1,274	7.8
92657	6	1,934	31.0	92862	0	9	0.0
92660	25	6,896	36.3	92865	10	4,873	20.5
92661	0	467	0.0	92866	3	4,293	7.0
92662	0	280	0.0	92867	39	12,050	32.4
92663	13	2,815	46.2	92868	7	6,337	11.0
92672	23	8,961	25.7	92869	19	10,166	18.7
92673	20	6,217	32.2	92870	42	13,858	30.3
92675	23	13,711	16.8	92886	47	11,096	42.4
92676	2	359	55.7	92887	11	6,905	15.9
92677	44	17,339	25.4	Unknown	9		
<i>Sources: 2006 Claritas Population by Zip Code 2006 OSHPD Orange County Ambulatory Surgical Data</i>				Countywide	1,702	809,856	21.0

Ambulatory Surgical Procedures (2006) Tympanostomy (Ear Tube Ventilation) - Ages 0 to 17 Rate of Procedures by ZIP Code of Residence

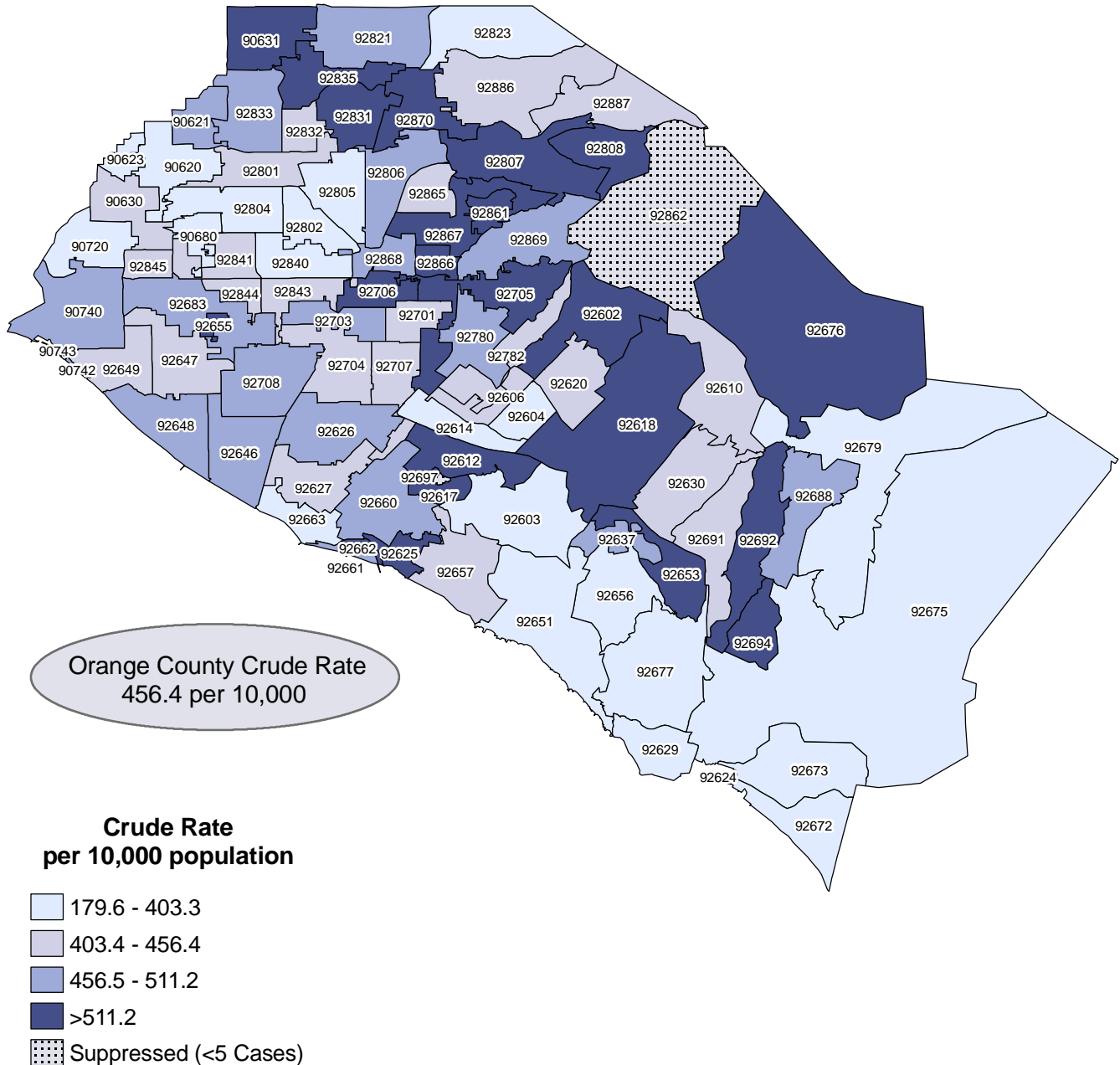


This map does not display cases with an unknown ZIP Code or P.O. Box (<1%; n=9/1,702).
Quality Management, Orange County Health Care Agency, 2008
Data Source: 2006 OSHPD Ambulatory Surgical Data

Table 8.19
Orange County Ambulatory Surgical Procedures (2006)
Cataract Removal Surgery - Ages 65+
Rate of Procedures by ZIP Code of Residence

ZIP Code	Number of Procedures 2006	2006 Population	Crude Rate (per 10,000)	ZIP Code	Number of Procedures 2006	2006 Population	Crude Rate (per 10,000)
90620	198	5,400	366.7	92679	45	1,624	277.1
90621	117	2,559	457.2	92683	526	10,639	494.4
90623	81	2,020	401.0	92688	88	1,853	474.9
90630	248	5,781	429.0	92691	220	5,401	407.3
90631	403	7,840	514.0	92692	381	6,817	558.9
90680	123	3,333	369.0	92694	22	310	708.6
90720	110	3,749	293.4	92697	1	2	5,000.0
90740	476	9,865	482.5	92701	112	2,456	456.0
90742	5	102	490.2	92703	185	4,024	459.7
90743	1	43	232.6	92704	255	5,719	445.9
92602	42	311	1,350.5	92705	307	5,750	533.9
92603	52	1,314	395.7	92706	179	3,089	579.5
92604	115	3,361	342.2	92707	145	3,477	417.0
92606	56	1,335	419.5	92708	345	7,286	473.5
92610	20	468	427.4	92780	259	5,075	510.3
92612	158	3,091	511.2	92782	50	1,227	407.5
92614	73	1,810	403.3	92801	217	5,175	419.3
92617	12	202	594.1	92802	125	3,744	333.9
92618	43	506	849.8	92804	301	8,979	335.2
92620	132	3,120	423.1	92805	145	4,080	355.4
92624	21	1,169	179.6	92806	149	3,107	479.6
92625	147	2,627	559.6	92807	232	4,083	568.2
92626	248	5,306	467.4	92808	75	1,287	582.8
92627	197	4,617	426.7	92821	225	4,445	506.2
92629	153	4,067	376.2	92823	12	342	350.9
92630	253	6,012	420.8	92831	214	3,661	584.5
92637	724	14,864	487.1	92832	104	2,394	434.4
92646	402	7,876	510.4	92833	252	5,330	472.8
92647	246	5,679	433.2	92835	269	4,559	590.0
92648	231	4,831	478.2	92840	208	5,511	377.4
92649	209	4,645	449.9	92841	147	3,625	405.5
92651	125	3,802	328.8	92843	159	3,727	426.6
92653	411	4,669	880.3	92844	98	2,288	428.3
92655	56	912	614.0	92845	100	2,369	422.1
92656	75	2,214	338.8	92861	56	1,012	553.4
92657	30	662	453.2	92862	1	1	10,000.0
92660	291	6,279	463.4	92865	93	2,162	430.2
92661	33	670	492.5	92866	113	1,612	701.0
92662	35	678	516.2	92867	257	4,441	578.7
92663	121	3,356	360.5	92868	110	2,390	460.3
92672	143	5,810	246.1	92869	185	3,979	464.9
92673	83	2,375	349.5	92870	284	5,377	528.2
92675	164	6,952	235.9	92886	215	5,159	416.7
92676	6	114	526.3	92887	63	1,463	430.6
92677	245	6,496	377.2	Unknown	143		
<i>Sources: 2006 Claritas Population by Zip Code 2006 OSHPD Orange County Ambulatory Surgical Data</i>				Countywide	14,786	323,943	456.4

Ambulatory Surgical Procedures (2006) Cataract Surgery - Ages 65+ Rate of Procedures by ZIP Code of Residence



This map does not display cases with an unknown ZIP Code or P.O. Box (<1%; n=14,786).

Quality Management, Orange County Health Care Agency, 2008

Data Source: 2006 OSHPD Ambulatory Surgical Data

Section 9: Infant Mortality Indicators

Section 9

Infant Mortality Indicators

Infant Mortality Rate

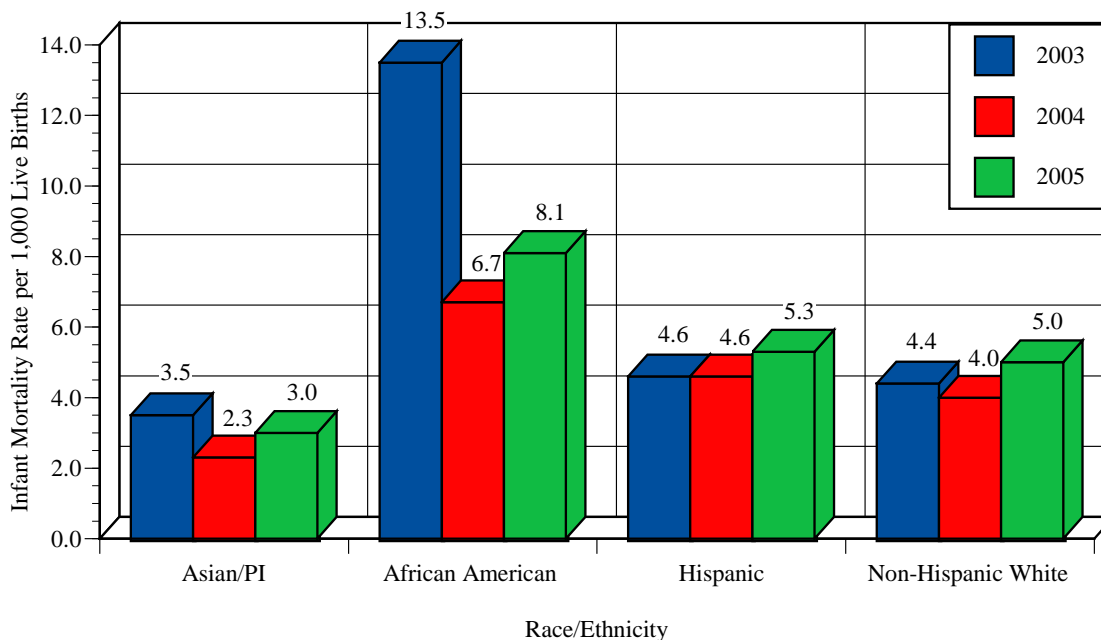
An infant death is defined as death occurring under 365 days of age. The infant mortality rate traditionally has been considered of great significance in public health. A high rate has been taken to indicate unmet health needs and unfavorable environmental factors, such as, income, nutrition, education, sanitation and medical care. The infant death rate is based on number of deaths per 1,000 live births.

The leading causes of infant mortality are perinatal conditions, short gestation, and low birth weight, congenital anomalies, sudden infant death syndrome (SIDS), and respiratory distress syndrome (RDS).

For the year 2005, the average infant mortality rate for the county was 4.8 deaths per 1,000 live births, or about 211 deaths per year. This number remained relatively constant compared to the previous OCHNA reporting periods (1999-2001), with an average annual rate of 4.6 deaths per 1,000 live births and (1996-1998) with an average rate of 4.4 deaths per 1,000 live births.

Mortality rates by race/ethnicity were analyzed for Orange County. The racial/ethnic categories for analyses in this report are White, Hispanic, African-American, and Asian/Pacific Islander. In 2005, the infant mortality rates varied substantially by race and ethnicity. For example, as shown on the graph below, infant mortality rate is highest for African-American mothers (8.1 per 1,000) compared to Hispanic, White, and Asian mothers, which ranged from 5.3 to 3 per 1,000. A similar pattern was observed in 2003 and 2004. Because of the relatively small number of African American births in Orange County each year (1% of all OC births or approx. 450), the infant mortality rates shows greater variation than in other races/ethnicities. Nonetheless, African Americans have higher infant mortality rates, compared to the rest of Orange County. In 2003, there were 6 African American infant deaths; whereas, the three-year average in Orange County for 2003-2005 was 4 deaths.

Infant Mortality Rate per 1,000 Live Births by Race/Ethnicity, 2003-2005



Infant Mortality by Race/Ethnicity (2005)			
Ethnicity	# Deaths	# Births	Infant Mortality Rate Deaths Per 1,000
White	67	13502	5.0
Hispanic	118	22411	5.3
Asian/PI*	21	7078	3.0
Black	4	494	8.1
Unknown/Missing	1	559	
Total	211	44,044	4.8

*Pacific Islander (PI)

Because the total number of infant deaths in Orange County is low, analyzing such information by race/ethnicity at the ZIP code level would not yield statistically reliable rates. Thus, the maps and tables on the following pages present the infant mortality rate by ZIP code from all cases combined. Because of the small number and distribution of events, there was no discernable pattern when infant mortality rates were mapped by Orange County ZIP codes. More than one-third of all ZIP codes (35%) had infant death rates higher than the countywide rate of 4.8 per 1,000 live births.

Tables/Maps: Infant Deaths (2005) – Infant Mortality Rate by ZIP Code of Residence

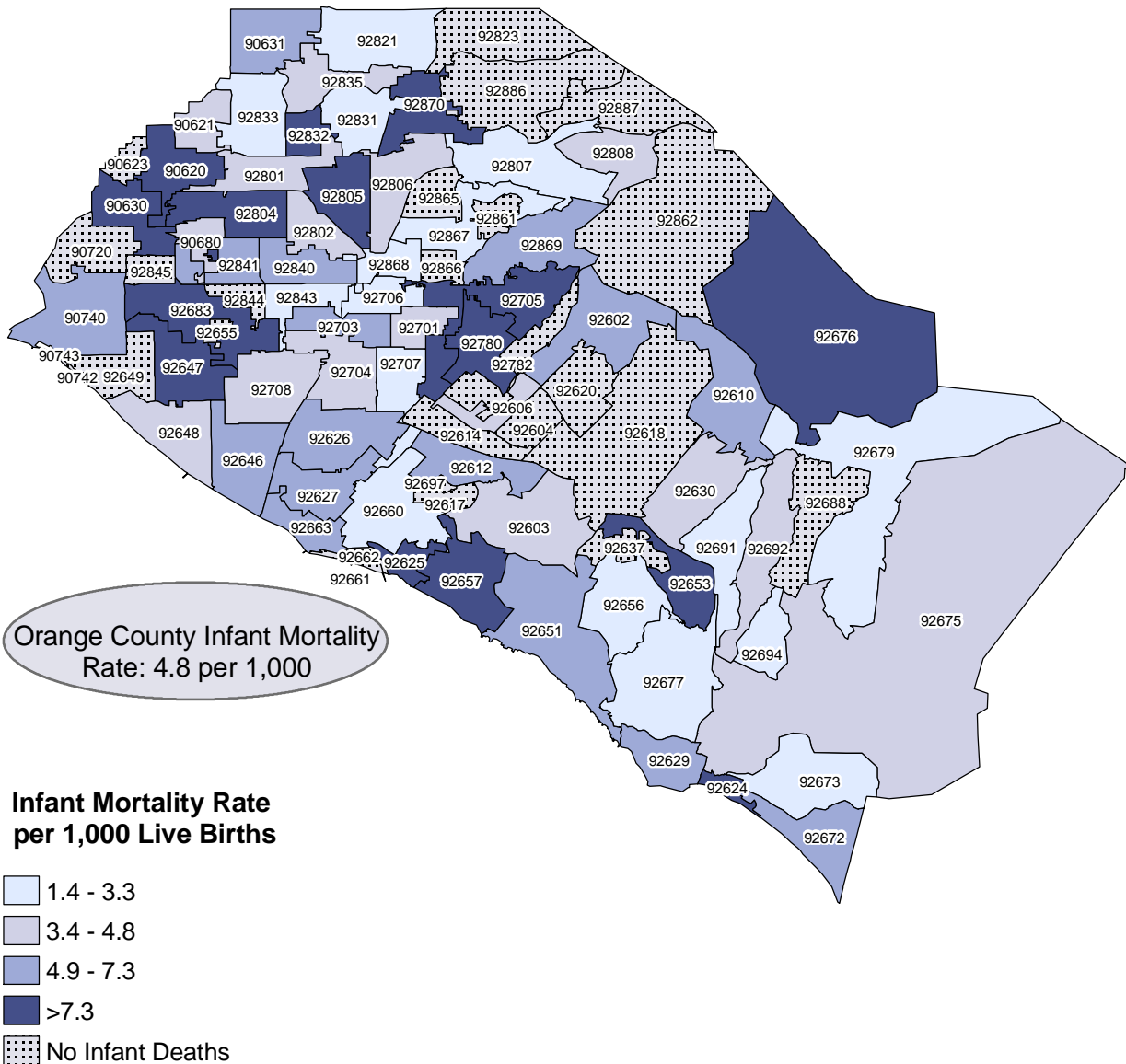
- 9.1 Orange County Infant Deaths

**Table 9.1
Orange County - Infant Deaths
Infant Mortality Rate by ZIP Code of Residence (2005)**

Zip Code	Number of Deaths	Number of Births	Infant Mortality Rate Per 1,000	Zip Code	Number of Deaths	Number of Births	Infant Mortality Rate Per 1,000
90620	5	607	8.2	92679	1	326	3.1
90621	3	662	4.5	92683	10	1,258	7.9
90623	0	146	0.0	92688	0	767	0.0
90630	7	418	16.7	92691	1	522	1.9
90631	5	1,000	5.0	92692	2	468	4.3
90680	2	520	3.8	92694	1	589	1.7
90720	0	169	0.0	92697	0	0	0.0
90740	1	137	7.3	92701	6	1,452	4.1
90742	0	10	0.0	92703	10	1,659	6.0
90743	0	3	0.0	92704	9	1,935	4.7
92602	2	398	5.0	92705	6	616	9.7
92603	1	242	4.1	92706	2	790	2.5
92604	0	224	0.0	92707	4	1,352	3.0
92606	1	221	4.5	92708	2	520	3.8
92610	1	166	6.0	92780	11	932	11.8
92612	1	192	5.2	92782	0	293	0.0
92614	0	237	0.0	92801	5	1,258	4.0
92617	0	77	0.0	92802	3	873	3.4
92618	0	189	0.0	92804	12	1,564	7.7
92620	0	270	0.0	92805	12	1,500	8.0
92624	1	90	11.1	92806	3	650	4.6
92625	1	109	9.2	92807	1	430	2.3
92626	4	597	6.7	92808	1	278	3.6
92627	6	1,012	5.9	92821	1	400	2.5
92629	2	331	6.0	92823	0	59	0.0
92630	3	838	3.6	92831	1	516	1.9
92637	0	2	0.0	92832	8	450	17.8
92646	3	533	5.6	92833	1	728	1.4
92647	6	812	7.4	92835	1	249	4.0
92648	2	432	4.6	92840	5	874	5.7
92649	0	328	0.0	92841	3	505	5.9
92651	1	196	5.1	92843	2	851	2.4
92653	3	345	8.7	92844	0	360	0.0
92655	0	100	0.0	92845	0	168	0.0
92656	2	893	2.2	92861	0	34	0.0
92657	1	134	7.5	92862	0	0	0.0
92660	1	302	3.3	92865	0	254	0.0
92661	0	32	0.0	92866	0	275	0.0
92662	0	16	0.0	92867	2	662	3.0
92663	1	155	6.5	92868	1	348	2.9
92672	3	558	5.4	92869	3	538	5.6
92673	1	437	2.3	92870	6	736	8.2
92675	2	507	3.9	92886	0	424	0.0
92676	1	18	55.6	92887	0	179	0.0
92677	2	715	2.8	Unknown		22	0.0
				Countywide	211	44,044	4.8

Orange County - Infant Deaths

Infant Mortality Rate by ZIP Code of Residence (2005)



Quality Management, Orange County Health Care Agency, 2008

Data Source: 2005 Orange County Master Death File and 2005 Orange County Master Birth File.

Section 10: Birth Indicators

Section 10

Birth Indicators

Live Birth: A live birth is defined as the complete expulsion or extraction from its mother of a product of conception (irrespective of the duration of pregnancy) which, after such separation, breathes, or shows any other evidence of life such as the beating of the heart, pulsating of the umbilical cord, or definite movement of voluntary muscles. This definition was formulated by the World Health Organization (WHO) in 1950, and is set forth in the California Administrative Code, Title 17, Chapter 1, Article 3. Birth is, undoubtedly, the most significant event in an individual's life. It plays a major role in the formulation, implementation, and dispersion of health care as well as social and economic services. One of the major goals of the health services is to ensure a risk free and positive birth outcome, and to minimize the cost resulting from complications of pregnancy and birth. For stability, all indicators are based on three year averages. Wherever possible, a comparison was made to the 2004 OCHNA Objective Data Report, which uses three-year averages for the years of 1999-2001. Additional comparisons were made using statewide data, which were also based on three-year averages (2004-2006). The following indicators, which are based on three year averages (2004-2006), were used in this assessment:

Crude Birth Rate: This indicator is based on the number of live births as a proportion of the total population. Over a three year period the average countywide crude birth rate was 14.62 per 1,000 of the population.

Fertility Rate (ages 15-44): This indicator is based on the number of live births as a proportion of live births to females 15-44 years of age. Between the years 2004-2006 the average countywide fertility rate was 68.06 per 1,000 females 15-44 years of age.

Low Birth Weight Rate: A low birth weight infant is defined as an infant weighing less than 2,500 grams at birth. The risk of low birth weight is known to be associated with late and inadequate prenatal care putting these infants at risk for developmental delays, disabilities, and other illness. In addition, there often are additional economic and social costs associated with low birth weight babies. This indicator is based on the number of live births, and is shown in percentage of live births. The average number of low birth weight babies was 6.3%, which is lower than the statewide rate of 6.8% for the same period. This is a 12.5% increase from the 5.6% found for OC in the 2004 report. This number is also higher than the Healthy People 2010 objective of having no more than 5% of babies born with a low birth weight.

Births to Adolescent Mothers (ages 15-19): Births to adolescent mothers is considered not only medically risky but also socially unhealthy. It poses medical and social problems for the mother as well as her infant and the community. According to a 2003 report by the Public Health Institute, the direct costs to taxpayers for teen births is around \$1.5 billion every year, with

indirect costs reaching \$3.3 billion.¹ This indicator is based on the total number of live births among 15-19 year old women per 1,000 of the population in the same age group over a given period of time, and is presented as rates. In the 2004 objective data report, the age-specific rate was 38 per 1,000 females 15-19 years of age. During the current report period (2004-2006) this number dropped to 31.1 per 1,000 females ages 15-19 years, which is an 18% decrease in the number of babies born to adolescent mothers. In comparison, the teen birth rate in California, for the same period, was 37.8 per 1,000 females. Both Orange County and the state successfully fell below the Healthy People 2010 goal of 46 births per 1,000 females 15-19 years of age.

Prenatal Care Not Received in the First Trimester: Prenatal care received after 12 weeks of gestation is termed as late prenatal care or prenatal care not received in the first trimester. It is considered to be a high risk factor, for it can lead to an unhealthy birth outcome. Early prenatal care provides an excellent opportunity to detect and treat maternal and fetal medical problems as well as to offer counseling on healthy life style and habit, thus ensuring a positive birth outcome. This indicator is based on the total number of live births and is presented in percentages. In the 2004 Objective Data Report, 11.6% of mothers did not receive prenatal care within the first three months of pregnancy. In the current report, 8.3% of women received late or no prenatal care, a drop of 28%. Statewide, 13.5% received either late or no prenatal care during the same period. Orange County has achieved the Healthy People 2010 goal of having no more than 10% of pregnant women who receive late or no prenatal care.

Adequacy of Prenatal Care Utilization Index: The Kotelchuck Adequacy of Prenatal Care Utilization (APNCU) index uses two indices of prenatal care to determine adequacy, an index of the mother's adequacy of initiation of prenatal care, and an index of the adequacy of prenatal care visits. The adequacy of prenatal care visits adjusts for gestational age at initiation of prenatal care, and gestational age at delivery of the baby. These two indices are then used in a matrix to determine a final adequacy of prenatal care utilization index. Index categories are inadequate, intermediate, adequate, adequate plus, and missing. Inadequate scores are mapped by ZIP code of residence. Encouragingly, there was a 31% decrease in the number of mothers who did not receive adequate prenatal care, from 13.3% in the 2004 report to 9.2% during the current period.

Breastfeeding Initiation: Breastfeeding is promoted by the American Academy of Pediatrics, WIC, and other national and international authorities. Besides being cost effective for families, breastfeeding has been associated with fewer episodes of infectious illness among infants. The Healthy People 2010 goal is to increase breastfeeding to 75%. Orange County has already exceeded this goal. The tables and maps provide the percentage of mothers with a known feeding method, either "exclusive" breastfeeding or "any" breastfeeding, which would be a combination of breast feeding and formula. Breastfeeding data was captured for 95% of birthing mothers over a three-year period (2004-2006). In 2004, 84.9% of mothers indicated they would initiate "any" breastfeeding and 29.1% indicated they would breastfeed exclusively. These numbers did not change in the current report, where 84.8% reported they would do a combination of

¹ Constantine, N. A. & Nevarez, C. R. (2003). [No Time for Complacency: Teen Births in California](#). Berkeley, CA: Public Health Institute

breastfeeding and bottle feeding and 28.6% indicated they would breastfeed exclusively. While the number of women who indicate that they will initiate some form of breastfeeding has consistently been above the 75% objective established by Healthy People 2010, the rate is below the statewide average of 86.3% for the years 2004-2006.

Deliveries by Cesarean Section: The number of Cesarean Sections (C-sections) has been increasing in the last few years. What is alarming is the increase in the number of elective C-sections, or those women who are considered to be at low-risk: >37 weeks gestation, singleton (not a multiple pregnancy), and fetus presents in a vertex position (downward facing head in the birth canal). This concern may be warranted, as studies have found that mothers who undergo C-sections experience greater morbidity and mortality rates including being at greater risk for developing blood clots and infections. Based on the three-year average (2004-2006), 32% of babies were delivered by C-section in Orange County.

Tables and Maps

The tables and maps below identify the birth indicators examined in the 2008 objective data report. The crude birth rate is based on the number of births per 1,000 total population (2005). The fertility rate is based on the number of births per 1,000 females 15-44 years of age. The teen birth rate is based on the number of births per 1,000 females 15-19 years of age. Breastfeeding is based on the total number of mothers who indicated that they would breastfeed either exclusively or in combination with formula. The tables/maps for breastfeeding are ranked based on the total number of breastfeeding events. The remaining birth indicators are based on the percentage of total live births. For each indicator, the countywide rate is provided. Because the rates in ZIP codes with small populations are unstable, rates should be interpreted with caution.

Tables/Maps: Orange County Births, incidents by ZIP Code of Residence (2004-2006)

- 10.1 Crude Birth Rate
- 10.2 Fertility Rate
- 10.3 Low Birth Weight Babies
- 10.4 Teen Mothers (Ages 15-19)
- 10.5 Late or No Prenatal Care
- 10.6 APNCU Adequacy of Prenatal Care Utilization (Inadequacy) Index
- 10.7 “Any” or “Exclusive” Breastfeeding
- 10.8 Cesarean Section

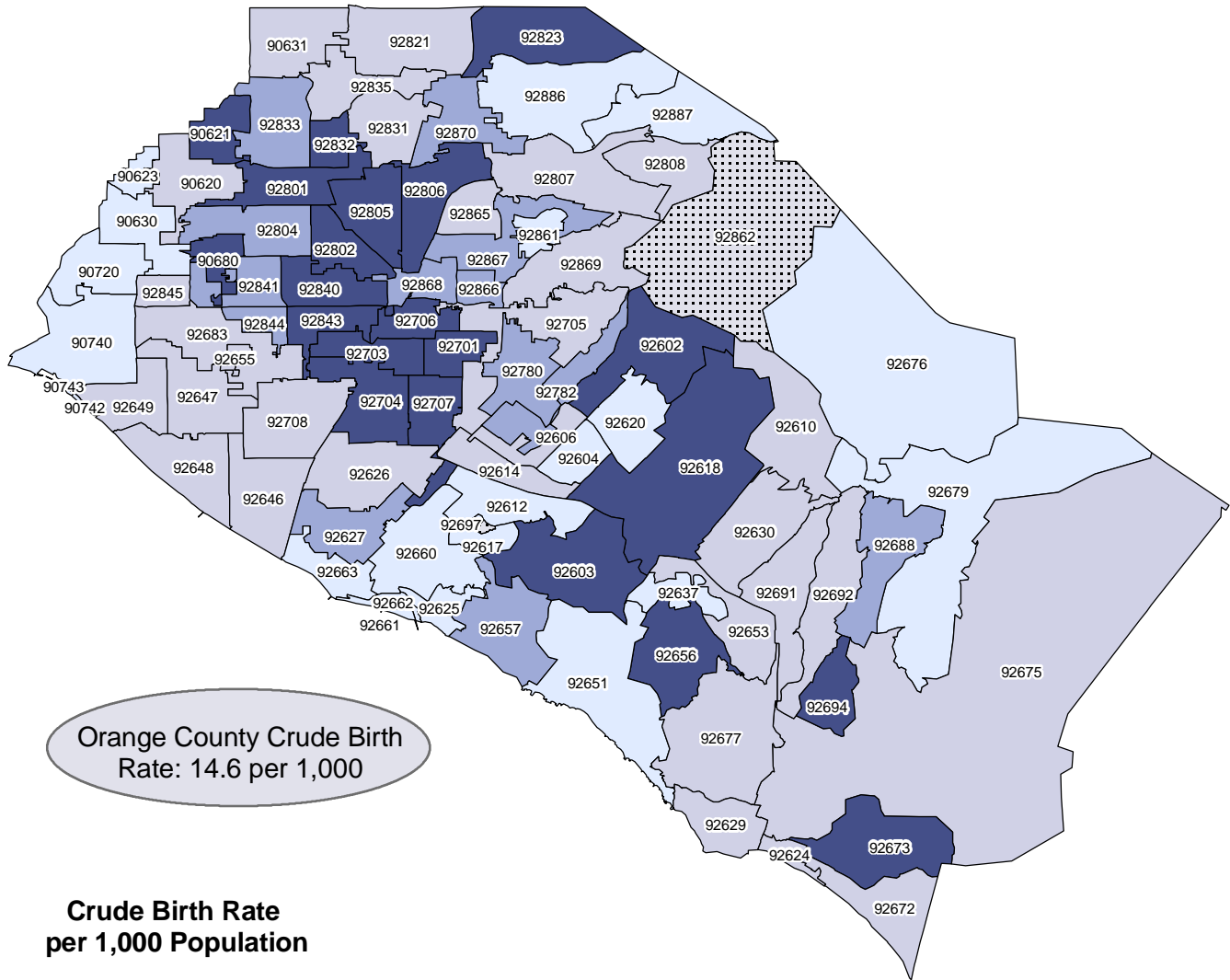
**Table 10.1
Orange County
Total Births, 2004-2006
by ZIP Code of Residence**

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average	Population 2005	All Female 15 - 44 2005	Crude Rate per 1,000
90620	503	607	577	1,687	562	44,784	9,308	12.6
90621	726	662	621	2,009	670	35,542	8,178	18.8
90623	173	146	147	466	155	16,010	3,218	9.7
90630	458	418	468	1,344	448	47,768	9,909	9.4
90631	1,010	1,001	974	2,985	995	69,005	14,585	14.4
90680	597	520	606	1,723	574	32,188	6,837	17.8
90720	181	169	189	539	180	23,451	4,501	7.7
90740	136	137	147	420	140	24,461	3,088	5.7
90742	8	10	5	23	8	887	166	8.6
90743	6	3	3	12	4	451	76	8.9
92602	439	397	407	1,243	414	6,242	1,608	66.4
92603	116	242	278	636	212	10,798	2,147	19.6
92604	233	224	236	693	231	30,220	6,129	7.6
92606	258	221	231	710	237	22,701	5,699	10.4
92610	182	166	181	529	176	15,617	3,870	11.3
92612	272	194	191	657	219	24,115	6,317	9.1
92614	284	237	249	770	257	25,582	6,104	10.0
92617	14	77	110	201	67	13,054	5,611	5.1
92618	158	189	148	495	165	8,758	2,122	18.8
92620	279	270	356	905	302	41,705	9,039	7.2
92624	67	90	89	246	82	7,753	1,437	10.6
92625	125	109	105	339	113	12,552	2,347	9.0
92626	618	596	628	1,842	614	47,669	11,219	12.9
92627	1,091	1,013	1,037	3,141	1,047	64,586	15,193	16.2
92629	255	331	304	890	297	28,129	5,260	10.5
92630	805	838	828	2,471	824	59,550	12,494	13.8
92637	0	2	5	7	2	15,568	95	0.1
92646	556	533	567	1,656	552	56,447	10,809	9.8
92647	765	812	746	2,323	774	60,592	13,448	12.8
92648	547	432	529	1,508	503	46,400	10,334	10.8
92649	371	328	377	1,076	359	34,184	6,782	10.5
92651	197	196	201	594	198	25,180	4,278	7.9
92653	362	345	347	1,054	351	31,899	5,995	11.0
92655	151	100	123	374	125	9,049	1,965	13.8
92656	890	893	845	2,628	876	45,422	11,773	19.3
92657	117	134	132	383	128	8,006	1,586	15.9
92660	292	302	252	846	282	33,292	5,549	8.5
92661	18	32	24	74	25	3,951	807	6.2
92662	14	16	18	48	16	2,897	554	5.5
92663	215	155	167	537	179	22,191	4,885	8.1
92672	614	560	531	1,705	568	39,328	7,455	14.5
92673	385	435	464	1,284	428	22,057	4,140	19.4
92675	500	507	464	1,471	490	38,072	7,088	12.9
92676	16	18	18	52	17	2,089	421	8.3
92677	689	715	630	2,034	678	65,626	13,400	10.3
92679	366	326	292	984	328	41,144	8,691	8.0
92683	1,325	1,258	1,238	3,821	1,274	90,906	19,070	14.0
92688	821	767	703	2,291	764	48,489	12,155	15.7

Table 10.1 (continued)
Orange County
Total Births, 2004-2006
by ZIP Code of Residence

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average	Population 2005	All Female 15 - 44 2005	Crude Rate per 1,000
92691	534	522	515	1,571	524	47,848	9,345	10.9
92692	544	468	452	1,464	488	48,045	9,171	10.2
92694	519	589	628	1,736	579	18,000	4,811	32.1
92697	0	0	1	1	0	824	391	0.4
92701	1,452	1,451	1,435	4,338	1,446	58,268	13,507	24.8
92703	1,673	1,660	1,689	5,022	1,674	73,474	16,732	22.8
92704	2,045	1,935	1,949	5,929	1,976	91,875	21,325	21.5
92705	651	616	643	1,910	637	47,004	9,259	13.5
92706	850	790	802	2,442	814	36,737	8,146	22.2
92707	1,304	1,352	1,444	4,100	1,367	65,020	15,178	21.0
92708	585	520	527	1,632	544	55,613	10,999	9.8
92780	973	932	988	2,893	964	56,454	12,729	17.1
92782	296	293	289	878	293	19,938	4,975	14.7
92801	1,251	1,259	1,312	3,822	1,274	57,972	13,050	22.0
92802	909	873	826	2,608	869	46,292	10,397	18.8
92804	1,587	1,565	1,538	4,690	1,563	90,617	20,021	17.3
92805	1,527	1,500	1,448	4,475	1,492	70,455	16,108	21.2
92806	639	649	675	1,963	654	33,614	7,564	19.5
92807	375	430	383	1,188	396	34,336	6,608	11.5
92808	293	278	249	820	273	21,259	4,914	12.9
92821	392	400	401	1,193	398	37,003	7,729	10.7
92823	61	59	63	183	61	1,867	297	32.7
92831	497	517	468	1,482	494	35,260	8,786	14.0
92832	503	449	434	1,386	462	24,994	5,768	18.5
92833	793	728	756	2,277	759	51,164	10,945	14.8
92835	234	249	226	709	236	21,978	4,029	10.8
92840	935	874	942	2,751	917	52,292	11,522	17.5
92841	492	505	516	1,513	504	31,679	6,620	15.9
92843	863	852	850	2,565	855	45,226	10,146	18.9
92844	377	360	372	1,109	370	24,948	5,465	14.8
92845	156	168	164	488	163	15,593	2,970	10.4
92861	29	34	28	91	30	6,006	953	5.1
92862	3	0	0	3	1	19	6	52.6
92865	277	254	273	804	268	18,312	3,891	14.6
92866	243	275	214	732	244	16,211	3,691	15.1
92867	676	662	674	2,012	671	43,488	9,211	15.4
92868	363	348	388	1,099	366	24,030	4,834	15.2
92869	535	538	527	1,600	533	40,790	8,511	13.1
92870	782	736	738	2,256	752	51,262	10,986	14.7
92886	435	424	403	1,262	421	43,875	8,476	9.6
92887	188	179	171	538	179	23,598	5,065	7.6
Other/Unknown	2	18	22	42	14			
Total	45,048	44,044	44,211	133,303	44,434	3,039,607	652,873	14.6

Orange County Births Crude Birth Rate by ZIP Code of Residence (2004-2006)



Based on 3-year total births, this map does not display <1.0% (42/133,303) of cases with an unknown or P.O. Box ZIP Code.

Data Source: 2004-2006 Orange County Master Birth File

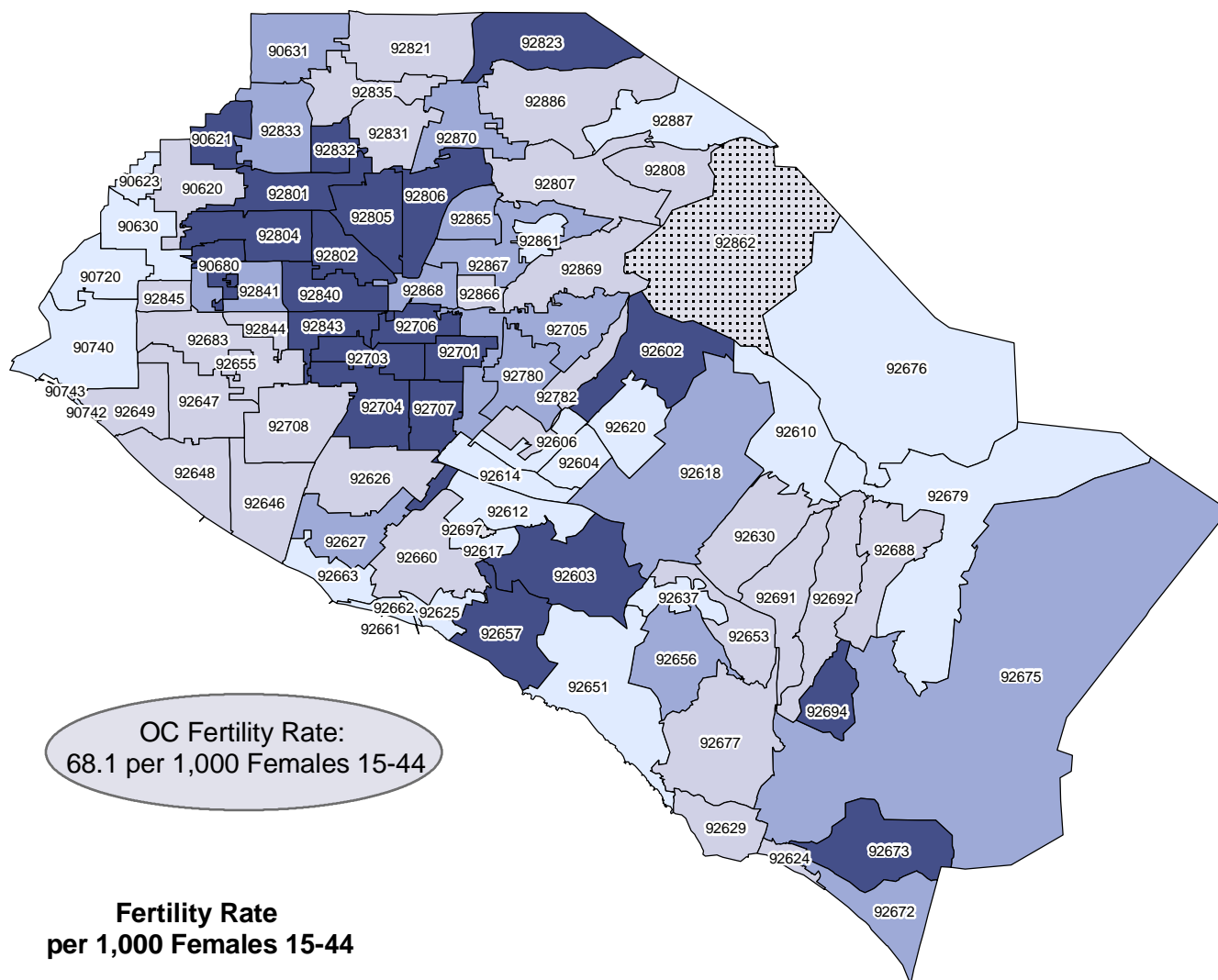
Table 10.2
Orange County
Fertility Rate by ZIP Code of Residence - Ages 15-44, 2004-2006

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average	Population 2005	All Female 15 - 44 2005	Fertility Rate per 1,000
90620	503	607	577	1,687	562	44,784	9,308	60.4
90621	726	662	621	2,009	670	35,542	8,178	81.9
90623	173	146	147	466	155	16,010	3,218	48.3
90630	458	418	468	1,344	448	47,768	9,909	45.2
90631	1,010	1,001	974	2,985	995	69,005	14,585	68.2
90680	597	520	606	1,723	574	32,188	6,837	84.0
90720	181	169	189	539	180	23,451	4,501	39.9
90740	136	137	147	420	140	24,461	3,088	45.3
90742	8	10	5	23	8	887	166	46.2
90743	6	3	3	12	4	451	76	52.6
92602	439	397	407	1,243	414	6,242	1,608	257.7
92603	116	242	278	636	212	10,798	2,147	98.7
92604	233	224	236	693	231	30,220	6,129	37.7
92606	258	221	231	710	237	22,701	5,699	41.5
92610	182	166	181	529	176	15,617	3,870	45.6
92612	272	194	191	657	219	24,115	6,317	34.7
92614	284	237	249	770	257	25,582	6,104	42.0
92617	14	77	110	201	67	13,054	5,611	11.9
92618	158	189	148	495	165	8,758	2,122	77.8
92620	279	270	356	905	302	41,705	9,039	33.4
92624	67	90	89	246	82	7,753	1,437	57.1
92625	125	109	105	339	113	12,552	2,347	48.1
92626	618	596	628	1,842	614	47,669	11,219	54.7
92627	1,091	1,013	1,037	3,141	1,047	64,586	15,193	68.9
92629	255	331	304	890	297	28,129	5,260	56.4
92630	805	838	828	2,471	824	59,550	12,494	65.9
92637	0	2	5	7	2	15,568	95	24.6
92646	556	533	567	1,656	552	56,447	10,809	51.1
92647	765	812	746	2,323	774	60,592	13,448	57.6
92648	547	432	529	1,508	503	46,400	10,334	48.6
92649	371	328	377	1,076	359	34,184	6,782	52.9
92651	197	196	201	594	198	25,180	4,278	46.3
92653	362	345	347	1,054	351	31,899	5,995	58.6
92655	151	100	123	374	125	9,049	1,965	63.4
92656	890	893	845	2,628	876	45,422	11,773	74.4
92657	117	134	132	383	128	8,006	1,586	80.5
92660	292	302	252	846	282	33,292	5,549	50.8
92661	18	32	24	74	25	3,951	807	30.6
92662	14	16	18	48	16	2,897	554	28.9
92663	215	155	167	537	179	22,191	4,885	36.6
92672	614	560	531	1,705	568	39,328	7,455	76.2
92673	385	435	464	1,284	428	22,057	4,140	103.4
92675	500	507	464	1,471	490	38,072	7,088	69.2
92676	16	18	18	52	17	2,089	421	41.2
92677	689	715	630	2,034	678	65,626	13,400	50.6
92679	366	326	292	984	328	41,144	8,691	37.7
92683	1,325	1,258	1,238	3,821	1,274	90,906	19,070	66.8
92688	821	767	703	2,291	764	48,489	12,155	62.8

Table 10.2 (continued)
Orange County
Fertility Rate by ZIP Code of Residence - Ages 15-44, 2004-2006

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average	Population 2005	All Female 15 - 44 2005	Fertility Rate per 1,000
92691	534	522	515	1,571	524	47,848	9,345	56.0
92692	544	468	452	1,464	488	48,045	9,171	53.2
92694	519	589	628	1,736	579	18,000	4,811	120.3
92697	0	0	1	1	0	824	391	0.9
92701	1,452	1,451	1,435	4,338	1,446	58,268	13,507	107.1
92703	1,673	1,660	1,689	5,022	1,674	73,474	16,732	100.0
92704	2,045	1,935	1,949	5,929	1,976	91,875	21,325	92.7
92705	651	616	643	1,910	637	47,004	9,259	68.8
92706	850	790	802	2,442	814	36,737	8,146	99.9
92707	1,304	1,352	1,444	4,100	1,367	65,020	15,178	90.0
92708	585	520	527	1,632	544	55,613	10,999	49.5
92780	973	932	988	2,893	964	56,454	12,729	75.8
92782	296	293	289	878	293	19,938	4,975	58.8
92801	1,251	1,259	1,312	3,822	1,274	57,972	13,050	97.6
92802	909	873	826	2,608	869	46,292	10,397	83.6
92804	1,587	1,565	1,538	4,690	1,563	90,617	20,021	78.1
92805	1,527	1,500	1,448	4,475	1,492	70,455	16,108	92.6
92806	639	649	675	1,963	654	33,614	7,564	86.5
92807	375	430	383	1,188	396	34,336	6,608	59.9
92808	293	278	249	820	273	21,259	4,914	55.6
92821	392	400	401	1,193	398	37,003	7,729	51.5
92823	61	59	63	183	61	1,867	297	205.4
92831	497	517	468	1,482	494	35,260	8,786	56.2
92832	503	449	434	1,386	462	24,994	5,768	80.1
92833	793	728	756	2,277	759	51,164	10,945	69.3
92835	234	249	226	709	236	21,978	4,029	58.7
92840	935	874	942	2,751	917	52,292	11,522	79.6
92841	492	505	516	1,513	504	31,679	6,620	76.2
92843	863	852	850	2,565	855	45,226	10,146	84.3
92844	377	360	372	1,109	370	24,948	5,465	67.6
92845	156	168	164	488	163	15,593	2,970	54.8
92861	29	34	28	91	30	6,006	953	31.8
92862	3	0	0	3	1	19	6	166.7
92865	277	254	273	804	268	18,312	3,891	68.9
92866	243	275	214	732	244	16,211	3,691	66.1
92867	676	662	674	2,012	671	43,488	9,211	72.8
92868	363	348	388	1,099	366	24,030	4,834	75.8
92869	535	538	527	1,600	533	40,790	8,511	62.7
92870	782	736	738	2,256	752	51,262	10,986	68.5
92886	435	424	403	1,262	421	43,875	8,476	49.6
92887	188	179	171	538	179	23,598	5,065	35.4
Other/Unknown	2	18	22	42	14			
Total	45,048	44,044	44,211	133,303	44,434	3,039,607	652,873	68.1

Orange County Births - Ages 15-44 Fertility Rate by ZIP Code of Residence (2004-2006)



Based on 3-year total births, this map does not display <1.0% (42/133,303) of cases with an unknown or P.O. Box ZIP Code.

Data Source: 2004-2006 Orange County Master Birth File

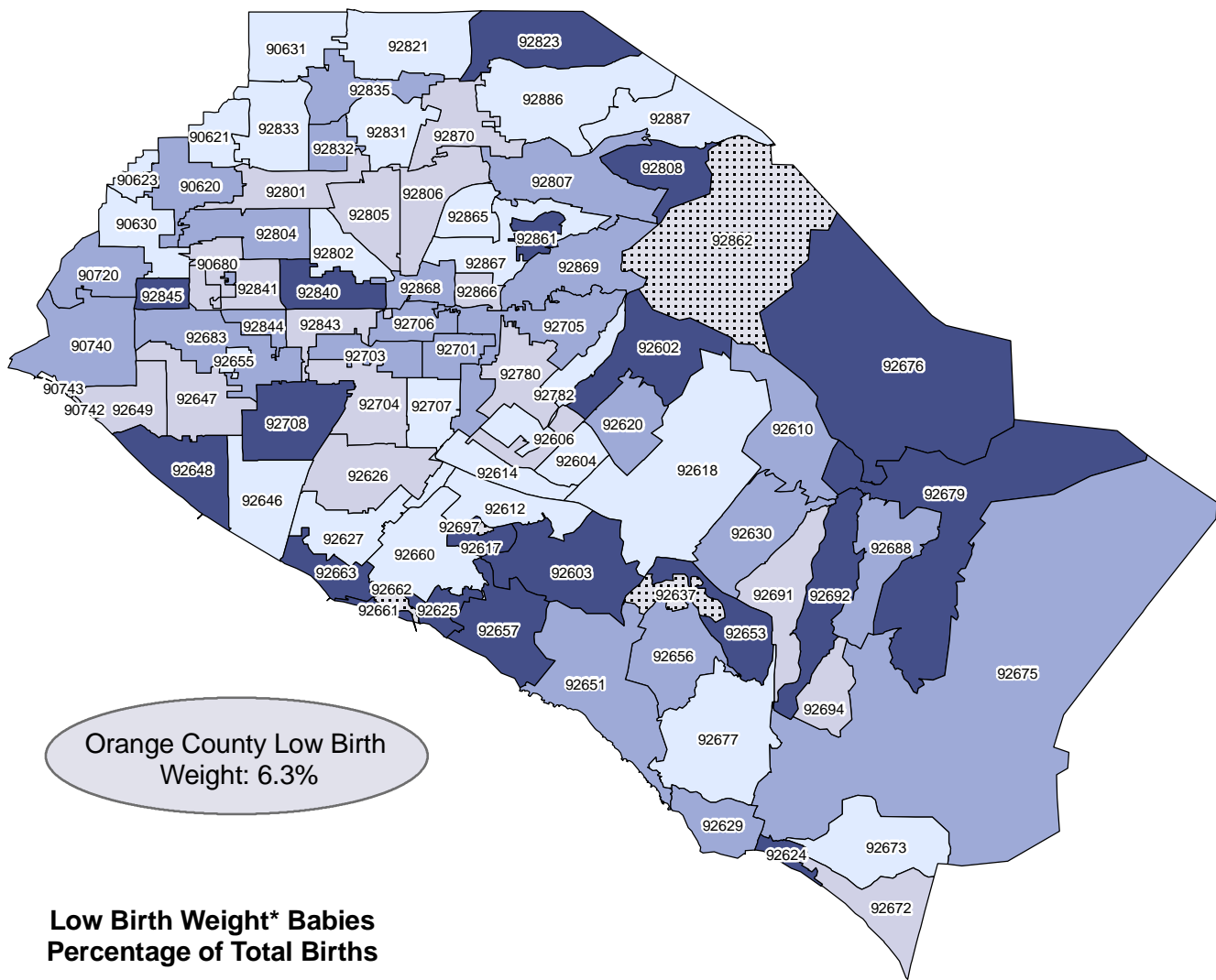
Table 10.3
Orange County Births
Low Birth Weight Babies, 2004-2006
Percentage of Incidents by ZIP Code of Residence

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average	3 Year Everage Births	Percent of Live Births
90620	26	45	38	109	36	562.3	6.5%
90621	42	33	33	108	36	669.7	5.4%
90623	10	5	8	23	8	155.3	4.9%
90630	23	20	24	67	22	448.0	5.0%
90631	45	48	67	160	53	995.0	5.4%
90680	46	25	36	107	36	574.3	6.2%
90720	9	10	19	38	13	179.7	7.1%
90740	11	11	8	30	10	140.0	7.1%
90742	0	0	0	0	0	7.7	0.0%
90743	0	0	0	0	0	4.0	0.0%
92602	29	39	28	96	32	414.3	7.7%
92603	6	20	29	55	18	212.0	8.6%
92604	12	15	7	34	11	231.0	4.9%
92606	13	13	18	44	15	236.7	6.2%
92610	11	12	13	36	12	176.3	6.8%
92612	13	15	6	34	11	219.0	5.2%
92614	22	10	10	42	14	256.7	5.5%
92617	1	5	12	18	6	67.0	9.0%
92618	7	10	11	28	9	165.0	5.7%
92620	28	13	21	62	21	301.7	6.9%
92624	7	7	5	19	6	82.0	7.7%
92625	11	11	10	32	11	113.0	9.4%
92626	38	50	24	112	37	614.0	6.1%
92627	52	69	52	173	58	1,047.0	5.5%
92629	16	26	18	60	20	296.7	6.7%
92630	44	59	61	164	55	823.7	6.6%
92637	0	0	0	0	0	2.3	0.0%
92646	26	33	32	91	30	552.0	5.5%
92647	38	56	42	136	45	774.3	5.9%
92648	48	35	44	127	42	502.7	8.4%
92649	23	23	22	68	23	358.7	6.3%
92651	14	12	13	39	13	198.0	6.6%
92653	30	28	21	79	26	351.3	7.5%
92655	9	4	6	19	6	124.7	5.1%
92656	45	66	70	181	60	876.0	6.9%
92657	6	8	15	29	10	127.7	7.6%
92660	18	14	16	48	16	282.0	5.7%
92661	0	4	3	7	2	24.7	9.5%
92662	1	0	2	3	1	16.0	6.3%
92663	16	15	18	49	16	179.0	9.1%
92672	39	33	33	105	35	568.3	6.2%
92673	20	29	24	73	24	428.0	5.7%
92675	36	32	26	94	31	490.3	6.4%
92676	1	3	1	5	2	17.3	9.6%
92677	43	34	36	113	38	678.0	5.6%
92679	36	22	22	80	27	328.0	8.1%
92683	85	83	92	260	87	1,273.7	6.8%
92688	55	57	56	168	56	763.7	7.3%

Table 10.3 (continued)
Orange County Births
Low Birth Weight Babies, 2004-2006
Percentage of Incidents by ZIP Code of Residence

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average	3 Year Everage Births	Percent of Live Births
92691	22	33	37	92	31	523.7	5.9%
92692	33	35	47	115	38	488.0	7.9%
92694	30	37	42	109	36	578.7	6.3%
92697	0	0	0	0	0	0.3	0.0%
92701	96	100	83	279	93	1,446.0	6.4%
92703	139	118	104	361	120	1,674.0	7.2%
92704	127	123	115	365	122	1,976.3	6.2%
92705	44	42	36	122	41	636.7	6.4%
92706	54	50	51	155	52	814.0	6.3%
92707	69	68	81	218	73	1,366.7	5.3%
92708	42	35	44	121	40	544.0	7.4%
92780	59	69	46	174	58	964.3	6.0%
92782	17	15	16	48	16	292.7	5.5%
92801	81	72	73	226	75	1,274.0	5.9%
92802	51	47	48	146	49	869.3	5.6%
92804	108	109	94	311	104	1,563.3	6.6%
92805	75	79	106	260	87	1,491.7	5.8%
92806	31	51	41	123	41	654.3	6.3%
92807	31	31	23	85	28	396.0	7.2%
92808	20	20	29	69	23	273.3	8.4%
92821	25	23	17	65	22	397.7	5.4%
92823	5	4	6	15	5	61.0	8.2%
92831	28	26	24	78	26	494.0	5.3%
92832	33	35	21	89	30	462.0	6.4%
92833	46	38	45	129	43	759.0	5.7%
92835	14	19	17	50	17	236.3	7.1%
92840	62	71	71	204	68	917.0	7.4%
92841	30	30	32	92	31	504.3	6.1%
92843	52	58	52	162	54	855.0	6.3%
92844	26	22	25	73	24	369.7	6.6%
92845	14	13	9	36	12	162.7	7.4%
92861	6	5	0	11	4	30.3	12.1%
92862	0	0	0	0	0	1.0	0.0%
92865	10	15	21	46	15	268.0	5.7%
92866	12	14	19	45	15	244.0	6.1%
92867	29	30	38	97	32	670.7	4.8%
92868	31	18	24	73	24	366.3	6.6%
92869	43	31	33	107	36	533.3	6.7%
92870	43	49	49	141	47	752.0	6.3%
92886	26	18	22	66	22	420.7	5.2%
92887	6	8	16	30	10	179.3	5.6%
Unknown	1	1	2	4	1	14.0	9.5%
Total	2,782	2,824	2,811	8,417	2,806	44,434.3	6.3%

Orange County Births - Low Birth Weight Babies Percentage of Incidents by ZIP Code of Residence (2004-2006)



Orange County Low Birth Weight: 6.3%

**Low Birth Weight* Babies
Percentage of Total Births**

- 4.8% - 5.7%
- 5.8% - 6.3%
- 6.4% - 7.3%
- >7.3%
- Suppressed (<5 Cases)

*Low birth weight babies weight less than 2.5kg at birth.
Based on 3-year total births, this map does not display <1.0% (4/8,417) of cases with an unknown or P.O. Box ZIP Code.
Data Source: 2004-2006 Orange County Master Birth File

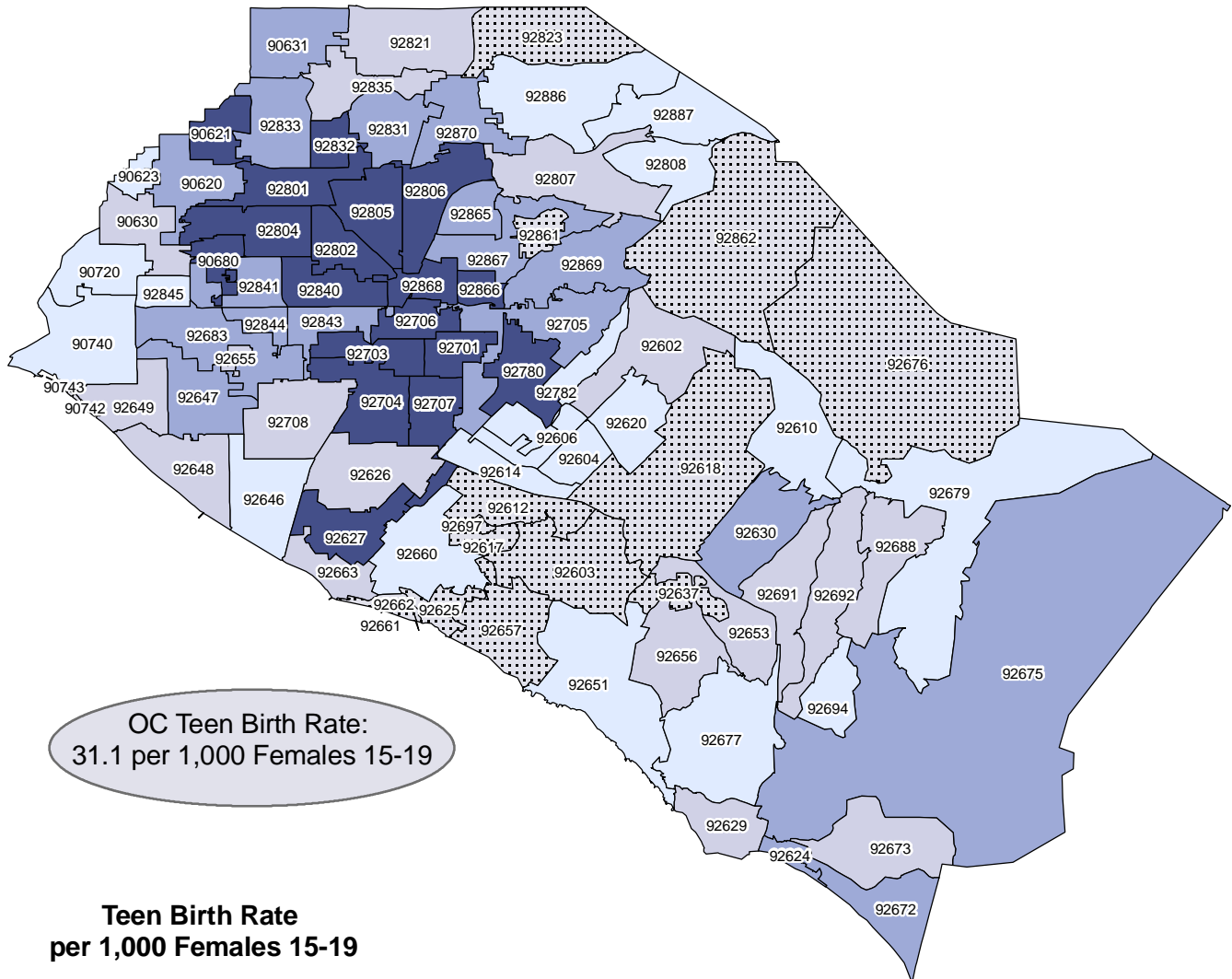
Table 10.4
Orange County Births
Teen Mothers (Ages 15-19)
Rate of Incidents by ZIP Code of Residence

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average	Female 15-19	Crude Rate (Per 1000)
90620	31	46	33	110	36.7	1,620	22.6
90621	70	60	69	199	66.3	1,217	54.5
90623	2	2	5	9	3.0	497	6.0
90630	20	12	23	55	18.3	1,793	10.2
90631	100	101	88	289	96.3	2,394	40.2
90680	58	57	59	174	58.0	1,034	56.1
90720	3	4	7	14	4.7	905	5.2
90740	2	2	3	7	2.3	445	5.2
90742	0	0	0	0	0.0	10	0.0
90743	0	0	0	0	0.0	12	0.0
92602	3	1	3	7	2.3	123	19.0
92603	2	1	1	4	1.3	608	2.2
92604	5	6	6	17	5.7	1,170	4.8
92606	5	2	4	11	3.7	646	5.7
92610	2	2	2	6	2.0	401	5.0
92612	1	1	1	3	1.0	1,162	0.9
92614	5	2	3	10	3.3	948	3.5
92617	0	0	0	0	0.0	1,617	0.0
92618	0	1	1	2	0.7	141	4.7
92620	2	4	2	8	2.7	1,542	1.7
92624	6	6	11	23	7.7	245	31.3
92625	0	0	0	0	0.0	257	0.0
92626	25	24	35	84	28.0	1,433	19.5
92627	74	80	59	213	71.0	1,692	42.0
92629	11	9	7	27	9.0	678	13.3
92630	36	54	50	140	46.7	2,022	23.1
92637	0	0	1	1	0.3	2	166.7
92646	12	11	11	34	11.3	1,647	6.9
92647	49	52	54	155	51.7	1,774	29.1
92648	19	9	12	40	13.3	1,009	13.2
92649	5	7	15	27	9.0	824	10.9
92651	4	2	3	9	3.0	554	5.4
92653	19	18	14	51	17.0	1,132	15.0
92655	10	5	6	21	7.0	322	21.7
92656	14	21	29	64	21.3	1,085	19.7
92657	0	0	0	0	0.0	180	0.0
92660	1	3	2	6	2.0	871	2.3
92661	1	0	0	1	0.3	57	5.8
92662	0	0	0	0	0.0	39	0.0
92663	3	2	6	11	3.7	446	8.2
92672	37	23	35	95	31.7	1,048	30.2
92673	6	7	12	25	8.3	762	10.9
92675	50	57	41	148	49.3	1,377	35.8
92676	1	0	0	1	0.3	64	5.2
92677	22	15	16	53	17.7	2,190	8.1
92679	7	2	5	14	4.7	1,490	3.1
92683	72	66	77	215	71.7	2,775	25.8
92688	21	20	14	55	18.3	1,475	12.4

Table 10.4 (continued)
Orange County Births
Teen Mothers (Ages 15-19)
Rate of Incidents by ZIP Code of Residence

ZIP Code	2,004	2,005	2,006	3 Year Total	3 Year Average	Female 15-19	Crude Rate (Per 1000)
92691	21	20	15	56	18.7	1,610	11.6
92692	16	15	21	52	17.3	1,626	10.7
92694	1	4	1	6	2.0	480	4.2
92697	0	0	0	0	0.0	114	0.0
92701	204	210	199	613	204.3	2,131	95.9
92703	236	207	237	680	226.7	2,814	80.5
92704	249	233	242	724	241.3	3,541	68.2
92705	47	53	43	143	47.7	1,525	31.2
92706	96	93	79	268	89.3	1,286	69.5
92707	141	153	167	461	153.7	2,570	59.8
92708	16	21	14	51	17.0	1,741	9.8
92780	79	79	80	238	79.3	1,806	43.9
92782	3	2	3	8	2.7	391	6.8
92801	115	139	142	396	132.0	1,926	68.5
92802	108	99	103	310	103.3	1,552	66.6
92804	154	136	158	448	149.3	2,941	50.8
92805	154	179	181	514	171.3	2,497	68.6
92806	59	49	48	156	52.0	1,019	51.0
92807	10	14	23	47	15.7	1,169	13.4
92808	3	1	2	6	2.0	597	3.3
92821	17	18	16	51	17.0	1,320	12.9
92823	0	0	0	0	0.0	57	0.0
92831	29	33	28	90	30.0	1,204	24.9
92832	59	56	55	170	56.7	833	68.1
92833	39	62	66	167	55.7	1,920	29.0
92835	11	5	5	21	7.0	636	11.0
92840	78	59	88	225	75.0	1,744	43.0
92841	38	38	43	119	39.7	961	41.3
92843	76	66	60	202	67.3	1,638	41.1
92844	15	22	23	60	20.0	798	25.1
92845	5	3	1	9	3.0	528	5.7
92861	0	2	1	3	1.0	258	3.9
92862	0	0	0	0	0.0	0	0.0
92865	17	16	25	58	19.3	621	31.2
92866	17	26	17	60	20.0	403	49.6
92867	39	38	49	126	42.0	1,710	24.6
92868	26	24	37	87	29.0	687	42.2
92869	26	35	33	94	31.3	1,376	22.8
92870	53	57	57	167	55.7	1,717	32.4
92886	4	9	13	26	8.7	1,764	4.9
92887	2	3	5	10	3.3	1,034	3.2
Unknown	0	1	4	5	1.7		
Total	3,079	3,077	3,209	9,365	3,121.7	100,281	31.1

Orange County Births - Teen Mothers (Ages 15-19) Rate of Incidents by ZIP Code of Residence (2004-2006)



Based on 3-year total births, this map does not display <1.0% (5/9,365) of cases with an unknown or P.O. Box ZIP Code.

Data Source: 2004-2006 Orange County Master Birth File

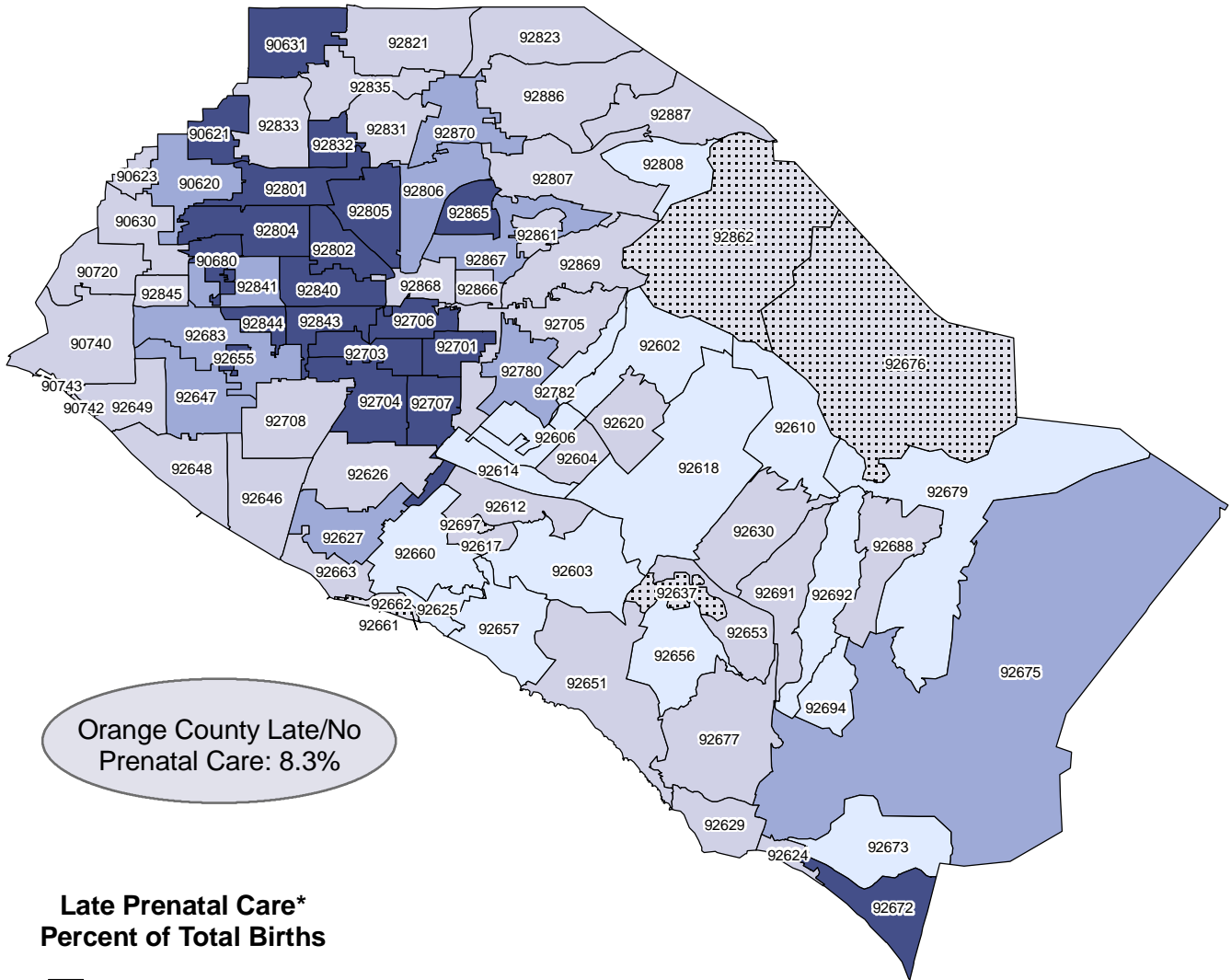
Table 10.5
Orange County Births
Late or No Prenatal Care, 2004-2006
Percentage of Incidents by ZIP Code of Residence

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average	3 Year Average Births	Percent of Live Births
90620	31	60	56	147	49	562.3	8.7%
90621	92	59	76	227	76	669.7	11.3%
90623	9	4	12	25	8	155.3	5.4%
90630	46	28	36	110	37	448.0	8.2%
90631	116	107	86	309	103	995.0	10.4%
90680	73	53	75	201	67	574.3	11.7%
90720	8	15	12	35	12	179.7	6.5%
90740	6	11	7	24	8	140.0	5.7%
90742	0	1	0	1	0	7.7	4.3%
90743	0	0	0	0	0	4.0	0.0%
92602	11	7	11	29	10	414.3	2.3%
92603	3	5	4	12	4	212.0	1.9%
92604	12	11	9	32	11	231.0	4.6%
92606	5	4	16	25	8	236.7	3.5%
92610	2	1	5	8	3	176.3	1.5%
92612	5	12	12	29	10	219.0	4.4%
92614	11	7	7	25	8	256.7	3.2%
92617	0	5	9	14	5	67.0	7.0%
92618	2	4	6	12	4	165.0	2.4%
92620	12	10	14	36	12	301.7	4.0%
92624	4	6	9	19	6	82.0	7.7%
92625	1	2	2	5	2	113.0	1.5%
92626	49	35	51	135	45	614.0	7.3%
92627	98	99	77	274	91	1,047.0	8.7%
92629	11	25	21	57	19	296.7	6.4%
92630	55	67	66	188	63	823.7	7.6%
92637	0	0	0	0	0	2.3	0.0%
92646	29	29	34	92	31	552.0	5.6%
92647	78	74	72	224	75	774.3	9.6%
92648	29	31	26	86	29	502.7	5.7%
92649	21	20	24	65	22	358.7	6.0%
92651	7	10	10	27	9	198.0	4.5%
92653	29	26	32	87	29	351.3	8.3%
92655	17	15	15	47	16	124.7	12.6%
92656	29	24	45	98	33	876.0	3.7%
92657	3	5	4	12	4	127.7	3.1%
92660	6	7	6	19	6	282.0	2.2%
92661	2	1	0	3	1	24.7	4.1%
92662	0	1	0	1	0	16.0	2.1%
92663	7	14	5	26	9	179.0	4.8%
92672	74	97	63	234	78	568.3	13.7%
92673	10	14	21	45	15	428.0	3.5%
92675	55	42	46	143	48	490.3	9.7%
92676	2	1	1	4	1	17.3	7.7%
92677	27	30	33	90	30	678.0	4.4%
92679	8	8	4	20	7	328.0	2.0%
92683	113	122	136	371	124	1,273.7	9.7%
92688	29	35	37	101	34	763.7	4.4%

Table 10.5 (continued)
Orange County Births
Late or No Prenatal Care, 2004-2006
Percentage of Incidents by ZIP Code of Residence

ZIP Code	2,004	2,005	2,006	3 Year Total	3 Year Average	3 Year Average Births	Percent of Live Births
92691	36	29	40	105	35	523.7	6.7%
92692	11	17	25	53	18	488.0	3.6%
92694	10	8	15	33	11	578.7	1.9%
92697	0	0	0	0	0	0.3	0.0%
92701	169	167	156	492	164	1,446.0	11.3%
92703	185	186	184	555	185	1,674.0	11.1%
92704	209	204	218	631	210	1,976.3	10.6%
92705	44	48	54	146	49	636.7	7.6%
92706	94	87	96	277	92	814.0	11.3%
92707	139	139	137	415	138	1,366.7	10.1%
92708	32	40	48	120	40	544.0	7.4%
92780	92	78	94	264	88	964.3	9.1%
92782	9	9	13	31	10	292.7	3.5%
92801	128	152	152	432	144	1,274.0	11.3%
92802	85	89	92	266	89	869.3	10.2%
92804	159	144	180	483	161	1,563.3	10.3%
92805	171	154	178	503	168	1,491.7	11.2%
92806	69	61	57	187	62	654.3	9.5%
92807	16	23	19	58	19	396.0	4.9%
92808	10	4	12	26	9	273.3	3.2%
92821	22	22	23	67	22	397.7	5.6%
92823	3	2	4	9	3	61.0	4.9%
92831	38	42	32	112	37	494.0	7.6%
92832	45	51	46	142	47	462.0	10.2%
92833	53	61	76	190	63	759.0	8.3%
92835	12	13	6	31	10	236.3	4.4%
92840	95	113	116	324	108	917.0	11.8%
92841	51	43	46	140	47	504.3	9.3%
92843	77	94	96	267	89	855.0	10.4%
92844	31	37	46	114	38	369.7	10.3%
92845	7	9	12	28	9	162.7	5.7%
92861	1	3	2	6	2	30.3	6.6%
92862	1	0	0	1	0	1.0	33.3%
92865	25	30	27	82	27	268.0	10.2%
92866	23	16	22	61	20	244.0	8.3%
92867	60	46	66	172	57	670.7	8.5%
92868	26	32	30	88	29	366.3	8.0%
92869	34	37	43	114	38	533.3	7.1%
92870	66	71	53	190	63	752.0	8.4%
92886	26	24	10	60	20	420.7	4.8%
92887	5	4	12	21	7	179.3	3.9%
Unknown	2	5	7	14	5	14.0	
Total	3,608	3,638	3,838	11,084	3,695	44,434.3	8.3%

Orange County Births - Late or No Prenatal Care Percentage of Incidents by ZIP Code of Residence (2004-2006)



*Late prenatal care is indicated when prenatal care was initiated after the 2nd trimester.
Based on 3-year total births, this map does not display <1.0% (14/11,084) of cases with an unknown or P.O. Box ZIP Code.
Data Source: 2004-2006 Orange County Master Birth File

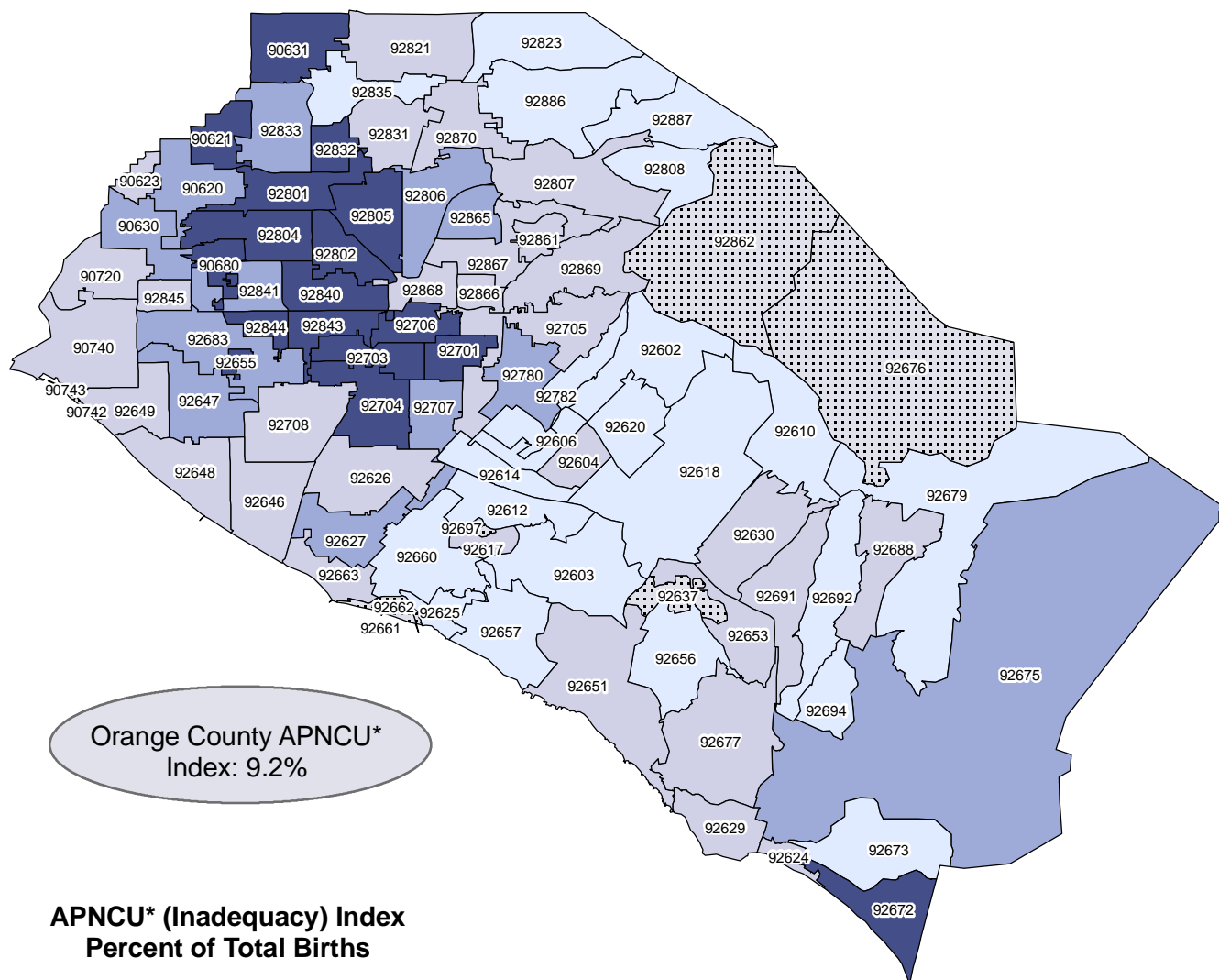
Table 10.6
Orange County Births - APNCU
Adequacy of Prenatal Care Utilization (Inadequacy), 2004-2006
Percentage of Incidents by ZIP Code of Residence

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average Births	3 Year Total Births	Percent of Live Births
90620	34	66	68	168	56	1,687	10.0%
90621	104	68	80	252	84	2,009	12.5%
90623	12	5	13	30	10	466	6.4%
90630	52	34	39	125	42	1,344	9.3%
90631	126	118	101	345	115	2,985	11.6%
90680	80	64	81	225	75	1,723	13.1%
90720	10	19	12	41	14	539	7.6%
90740	6	11	5	22	7	420	5.2%
90742	0	1	0	1	0	23	4.3%
90743	0	0	0	0	0	12	0.0%
92602	14	9	12	35	12	1,243	2.8%
92603	3	7	5	15	5	636	2.4%
92604	14	12	10	36	12	693	5.2%
92606	7	5	17	29	10	710	4.1%
92610	8	1	7	16	5	529	3.0%
92612	6	12	13	31	10	657	4.7%
92614	12	8	6	26	9	770	3.4%
92617	0	5	11	16	5	201	8.0%
92618	2	4	8	14	5	495	2.8%
92620	16	14	14	44	15	905	4.9%
92624	4	6	9	19	6	246	7.7%
92625	1	2	2	5	2	339	1.5%
92626	54	40	54	148	49	1,842	8.0%
92627	110	106	81	297	99	3,141	9.5%
92629	14	30	24	68	23	890	7.6%
92630	54	80	78	212	71	2,471	8.6%
92637	0	0	0	0	0	7	0.0%
92646	31	34	43	108	36	1,656	6.5%
92647	88	87	86	261	87	2,323	11.2%
92648	31	38	29	98	33	1,508	6.5%
92649	21	22	31	74	25	1,076	6.9%
92651	7	12	11	30	10	594	5.1%
92653	31	30	35	96	32	1,054	9.1%
92655	20	15	18	53	18	374	14.2%
92656	38	30	53	121	40	2,628	4.6%
92657	4	6	5	15	5	383	3.9%
92660	7	7	8	22	7	846	2.6%
92661	2	1	0	3	1	74	4.1%
92662	0	1	0	1	0	48	2.1%
92663	8	16	6	30	10	537	5.6%
92672	73	98	73	244	81	1,705	14.3%
92673	12	16	25	53	18	1,284	4.1%
92675	59	47	59	165	55	1,471	11.2%
92676	2	1	1	4	1	52	7.7%
92677	31	35	37	103	34	2,034	5.1%
92679	11	11	7	29	10	984	2.9%
92683	123	140	155	418	139	3,821	10.9%
92688	34	43	45	122	41	2,291	5.3%

Table 10.6 (continued)
Orange County Births - APNCU
Adequacy of Prenatal Care Utilization (Inadequacy), 2004-2006
Percentage of Incidents by ZIP Code of Residence

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average Births	3 Year Total Births	Percent of Live Births
92691	39	32	43	114	38	1,571	7.3%
92692	12	21	26	59	20	1,464	4.0%
92694	10	9	18	37	12	1,736	2.1%
92697	0	0	0	0	0	1	0.0%
92701	181	179	184	544	181	4,338	12.5%
92703	189	215	206	610	203	5,022	12.1%
92704	217	234	241	692	231	5,929	11.7%
92705	48	52	62	162	54	1,910	8.5%
92706	83	92	101	276	92	2,442	11.3%
92707	146	154	160	460	153	4,100	11.2%
92708	34	42	57	133	44	1,632	8.1%
92780	91	87	100	278	93	2,893	9.6%
92782	10	13	12	35	12	878	4.0%
92801	137	163	168	468	156	3,822	12.2%
92802	91	101	106	298	99	2,608	11.4%
92804	180	165	204	549	183	4,690	11.7%
92805	180	170	188	538	179	4,475	12.0%
92806	72	68	68	208	69	1,963	10.6%
92807	20	26	25	71	24	1,188	6.0%
92808	13	5	14	32	11	820	3.9%
92821	23	24	23	70	23	1,193	5.9%
92823	3	2	4	9	3	183	4.9%
92831	44	47	36	127	42	1,482	8.6%
92832	51	57	52	160	53	1,386	11.5%
92833	61	70	80	211	70	2,277	9.3%
92835	12	14	8	34	11	709	4.8%
92840	97	122	119	338	113	2,751	12.3%
92841	52	51	57	160	53	1,513	10.6%
92843	90	103	109	302	101	2,565	11.8%
92844	41	39	54	134	45	1,109	12.1%
92845	9	12	12	33	11	488	6.8%
92861	1	3	2	6	2	91	6.6%
92862	1	0	0	1	0	3	33.3%
92865	23	32	31	86	29	804	10.7%
92866	24	16	24	64	21	732	8.7%
92867	57	48	74	179	60	2,012	8.9%
92868	28	33	31	92	31	1,099	8.4%
92869	34	43	51	128	43	1,600	8.0%
92870	69	78	59	206	69	2,256	9.1%
92886	26	24	11	61	20	1,262	4.8%
92887	4	5	12	21	7	538	3.9%
Unknown	2	9	9	20	7	14	
Total	3,881	4,077	4,318	12,276	4,092	133,275	9.2%

Orange County Births - APNCU Adequacy of Prenatal Care Utilization (Inadequacy) Percentage of Incidents by ZIP Code of Residence (2004-2006)



*Adequacy of Prenatal Care Utilization (APNCU) Index is a composite indicator for inadequacy of prenatal care. Based on 3-year total births, this map does not display <1.0% (20/12,276) of cases with an unknown or P.O. Box ZIP Code.

Data Source: 2004-2006 Orange County Master Birth File

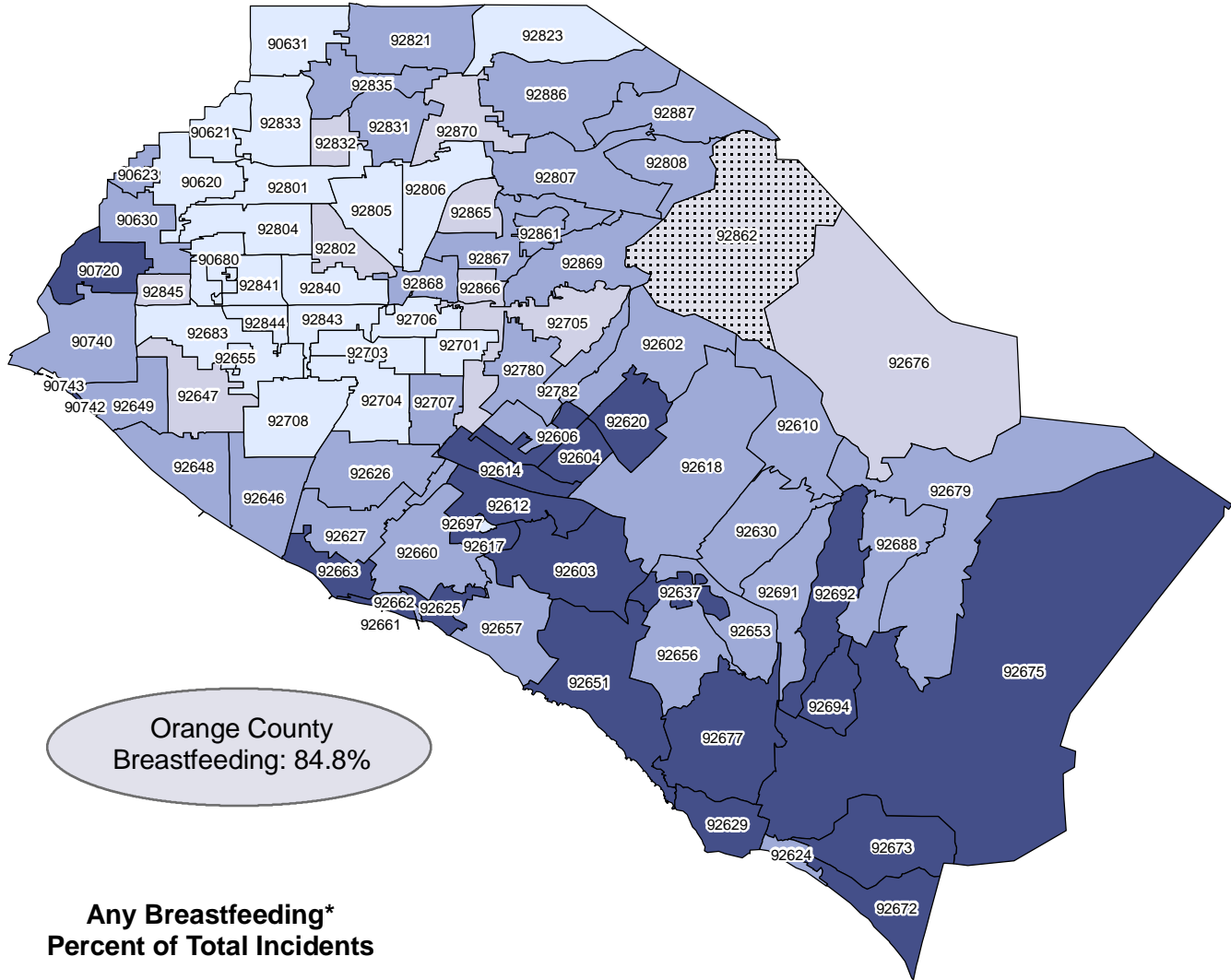
Table 10.7
Orange County
Any, Exclusive Breastfeeding (2004-2006)
Percentage of Incidents by ZIP Code of Residence

ZIP Code	3 Years Total	3 Year Any	3 Year Exclusive	% Any	% Exclusive
90620	1,584	1,291	411	81.5%	25.9%
90621	1,868	1,541	325	82.5%	17.4%
90623	435	378	122	86.9%	28.0%
90630	1,314	1,130	475	86.0%	36.1%
90631	2,896	2,413	874	83.3%	30.2%
90680	1,621	1,277	206	78.8%	12.7%
90720	518	467	247	90.2%	47.7%
90740	412	359	224	87.1%	54.4%
90742	37	35	21	94.6%	56.8%
90743	20	17	13	85.0%	65.0%
92602	1,184	1,065	490	89.9%	41.4%
92603	581	537	251	92.4%	43.2%
92604	673	610	245	90.6%	36.4%
92606	670	613	255	91.5%	38.1%
92610	496	437	229	88.1%	46.2%
92612	670	626	257	93.4%	38.4%
92614	738	670	308	90.8%	41.7%
92617	163	152	81	93.3%	49.7%
92618	473	417	190	88.2%	40.2%
92620	857	785	363	91.6%	42.4%
92624	229	205	89	89.5%	38.9%
92625	330	300	147	90.9%	44.5%
92626	1,807	1,626	631	90.0%	34.9%
92627	3,025	2,697	775	89.2%	25.6%
92629	818	740	389	90.5%	47.6%
92630	2,338	2,062	904	88.2%	38.7%
92637	8	8	3	100.0%	37.5%
92646	1,570	1,392	713	88.7%	45.4%
92647	2,217	1,855	699	83.7%	31.5%
92648	1,459	1,274	609	87.3%	41.7%
92649	1,001	894	440	89.3%	44.0%
92651	580	535	298	92.2%	51.4%
92653	1,037	913	407	88.0%	39.2%
92655	364	267	50	73.4%	13.7%
92656	2,473	2,220	1,171	89.8%	47.4%
92657	364	326	131	89.6%	36.0%
92660	804	719	365	89.4%	45.4%
92661	75	68	40	90.7%	53.3%
92662	57	49	22	86.0%	38.6%
92663	524	473	221	90.3%	42.2%
92672	1,331	1,210	554	90.9%	41.6%
92673	1,141	1,055	587	92.5%	51.4%
92675	1,384	1,259	398	91.0%	28.8%
92676	50	42	29	84.0%	58.0%
92677	1,983	1,796	951	90.6%	48.0%
92679	914	821	463	89.8%	50.7%
92683	3,592	2,642	554	73.6%	15.4%
92688	2,179	1,910	1,065	87.7%	48.9%

Table 10.7 (continued)
Orange County
Any, Exclusive Breastfeeding (2004-2006)
Percentage of Incidents by ZIP Code of Residence

ZIP Code	3 Years Total	3 Year Any	3 Year Exclusive	% Any	% Exclusive
92691	1,519	1,363	684	89.7%	45.0%
92692	1,383	1,250	630	90.4%	45.6%
92694	1,598	1,453	807	90.9%	50.5%
92697	8	6	5	75.0%	62.5%
92701	4,087	3,340	485	81.7%	11.9%
92703	4,797	3,937	552	82.1%	11.5%
92704	5,692	4,753	676	83.5%	11.9%
92705	1,785	1,502	539	84.1%	30.2%
92706	2,309	1,908	431	82.6%	18.7%
92707	3,944	3,368	581	85.4%	14.7%
92708	1,583	1,318	514	83.3%	32.5%
92780	2,751	2,345	768	85.2%	27.9%
92782	823	738	358	89.7%	43.5%
92801	3,666	3,011	517	82.1%	14.1%
92802	2,461	2,058	383	83.6%	15.6%
92804	4,404	3,568	710	81.0%	16.1%
92805	4,313	3,542	519	82.1%	12.0%
92806	1,845	1,517	385	82.2%	20.9%
92807	1,134	991	538	87.4%	47.4%
92808	763	658	385	86.2%	50.5%
92821	1,136	1,003	515	88.3%	45.3%
92823	168	136	73	81.0%	43.5%
92831	1,395	1,235	478	88.5%	34.3%
92832	1,268	1,063	294	83.8%	23.2%
92833	2,079	1,728	552	83.1%	26.6%
92835	647	581	323	89.8%	49.9%
92840	2,595	2,061	412	79.4%	15.9%
92841	1,416	1,082	228	76.4%	16.1%
92843	2,428	1,845	280	76.0%	11.5%
92844	1,055	759	108	71.9%	10.2%
92845	460	388	201	84.3%	43.7%
92861	87	74	40	85.1%	46.0%
92862	4	4	3	100.0%	75.0%
92865	751	637	273	84.8%	36.4%
92866	670	562	284	83.9%	42.4%
92867	1,858	1,582	697	85.1%	37.5%
92868	1,044	886	355	84.9%	34.0%
92869	1,509	1,307	578	86.6%	38.3%
92870	2,094	1,756	674	83.9%	32.2%
92886	1,166	1,004	632	86.1%	54.2%
92887	478	415	238	86.8%	49.8%
Other/Unknown	743	610	229		
Total	126,780	107,522	36,226	84.8%	28.6%

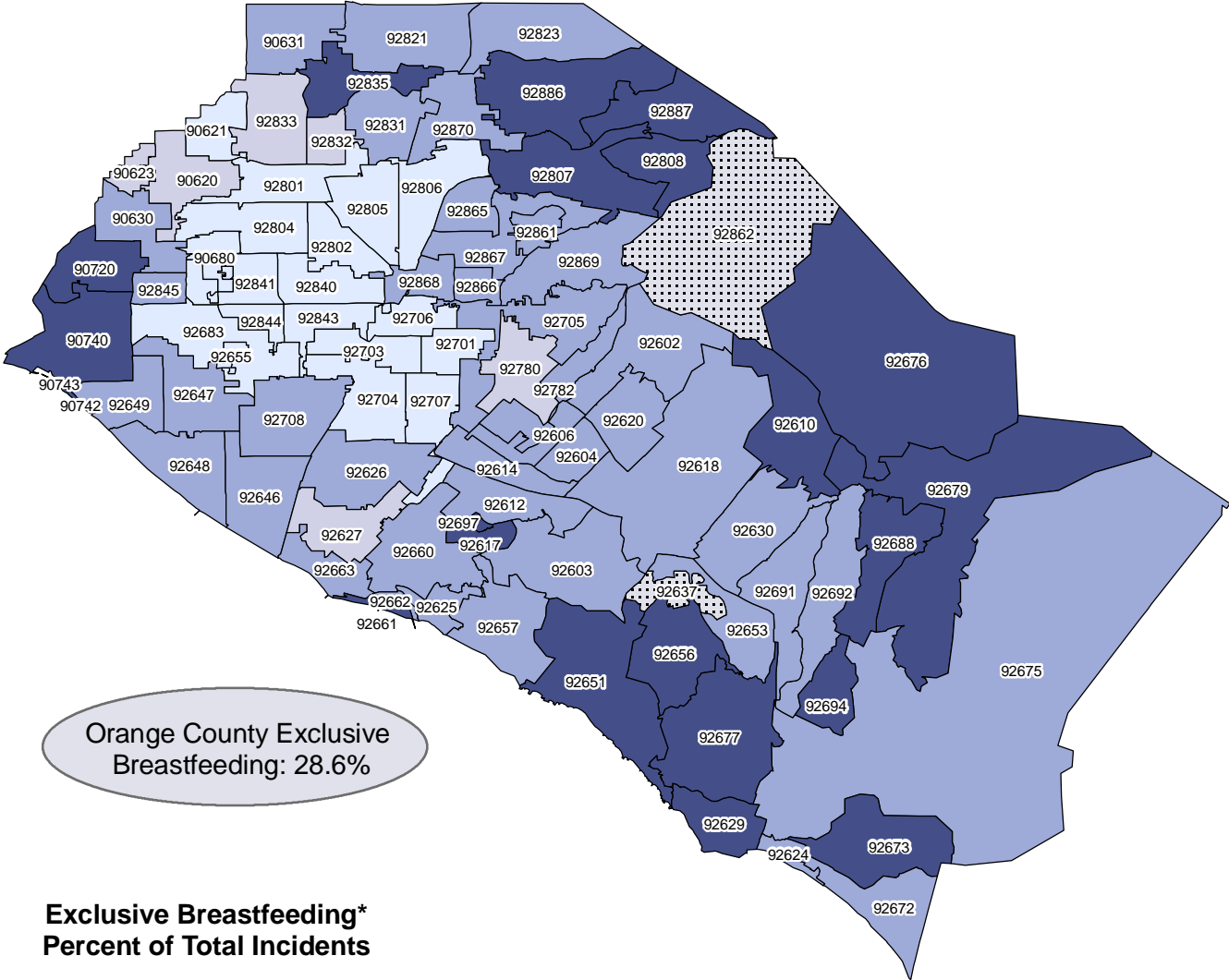
Orange County Births - "Any" Breastfeeding Percentage of Incidents by ZIP Code of Residence (2004-2006)



* "Any Breastfeeding" includes those mothers who plan to feed their infant either 'Breast Only' or 'Breast and Formula'. Based on 3-year total births, this map does not display <1.0% (610/126,780) of cases with an unknown or P.O. Box ZIP Code.

Data Source: 2004-2006 Epidemiology Assessment and Program Development
Maternal, Child and Adolescent Health Program/Center for Family Health
California Department of Public Health

Orange County Births - "Exclusive" Breastfeeding Percentage of Incidents by ZIP Code of Residence (2004-2006)



* "Exclusive Breastfeeding" includes those mothers planning to only breastfeed their infant for the first 6 months. Based on 3-year total births, this map does not display <1.0% (229/126,780) of cases with an unknown or P.O. Box ZIP Code.
 Data Source: 2004-2006 Data Source: 2004-2006 Epidemiology Assesment and Program Development Maternal, Child and, Adolescent Health Program/Center for Family Health
 California Department of Public Health

Table 10.8
Orange County Births
Cesarean Sections, 2004-2006
Percentage of Incidents by ZIP Code of Residence

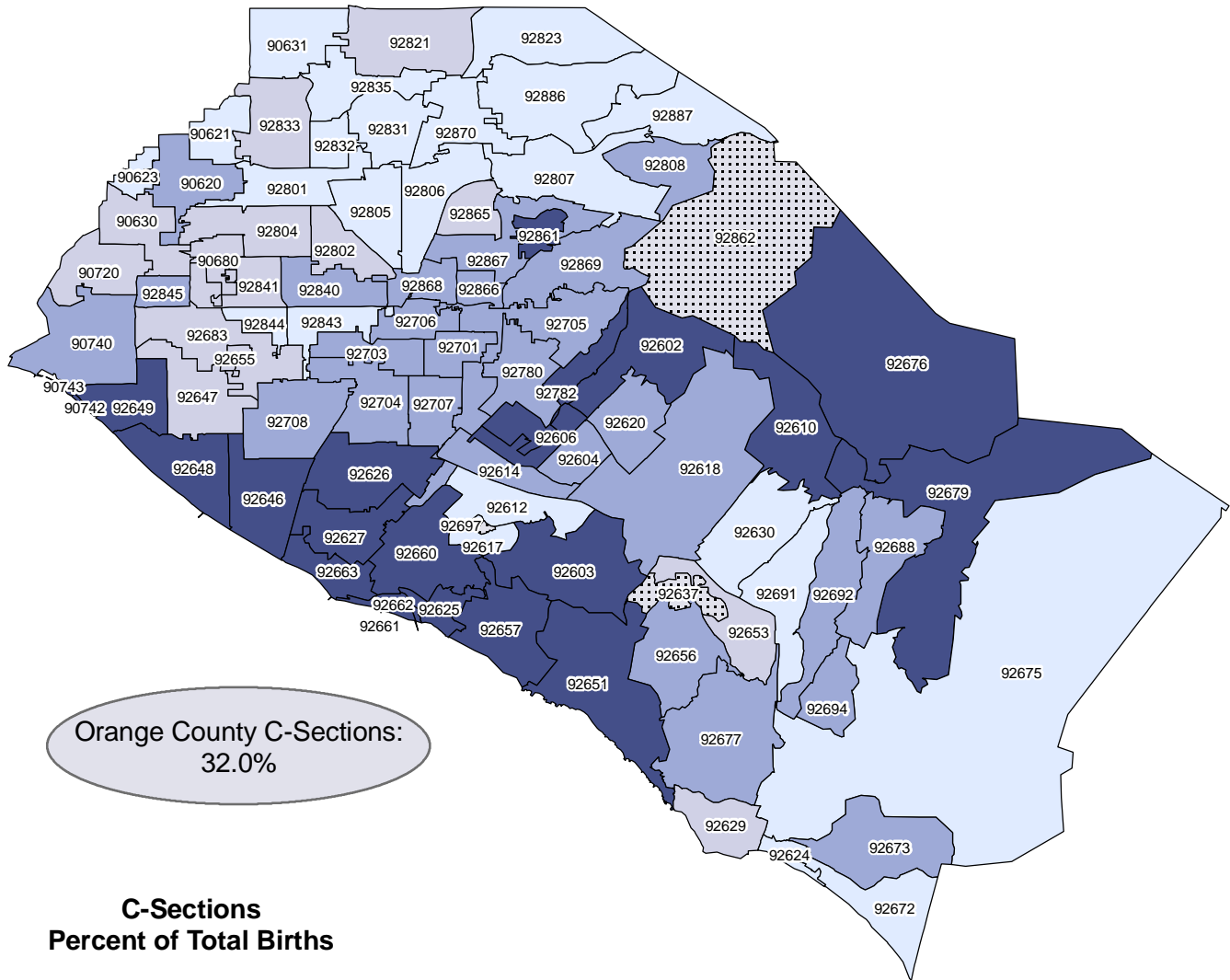
ZIP Code	2004	2005	2006	3 Year Total	3 Year Average Births	3 Year Total Births	Percent of Live Births
90620	148	209	203	560	186.7	1,687	33.2%
90621	207	191	162	560	186.7	2,009	27.9%
90623	55	34	42	131	43.7	466	28.1%
90630	144	131	147	422	140.7	1,344	31.4%
90631	282	266	307	855	285.0	2,985	28.6%
90680	187	166	177	530	176.7	1,723	30.8%
90720	57	46	69	172	57.3	539	31.9%
90740	39	50	49	138	46.0	420	32.9%
90742	3	3	2	8	2.7	23	34.8%
90743	2	2	2	6	2.0	12	50.0%
92602	151	131	154	436	145.3	1,243	35.1%
92603	40	82	106	228	76.0	636	35.8%
92604	74	77	83	234	78.0	693	33.8%
92606	96	84	78	258	86.0	710	36.3%
92610	56	69	76	201	67.0	529	38.0%
92612	83	60	54	197	65.7	657	30.0%
92614	98	70	83	251	83.7	770	32.6%
92617	4	21	36	61	20.3	201	30.3%
92618	45	58	61	164	54.7	495	33.1%
92620	104	83	122	309	103.0	905	34.1%
92624	13	28	28	69	23.0	246	28.0%
92625	50	48	41	139	46.3	339	41.0%
92626	224	215	219	658	219.3	1,842	35.7%
92627	399	359	346	1,104	368.0	3,141	35.1%
92629	78	95	108	281	93.7	890	31.6%
92630	242	261	249	752	250.7	2,471	30.4%
92637	0	1	2	3	1.0	7	42.9%
92646	201	187	211	599	199.7	1,656	36.2%
92647	232	267	240	739	246.3	2,323	31.8%
92648	197	137	196	530	176.7	1,508	35.1%
92649	150	121	160	431	143.7	1,076	40.1%
92651	79	66	72	217	72.3	594	36.5%
92653	105	112	112	329	109.7	1,054	31.2%
92655	44	38	32	114	38.0	374	30.5%
92656	273	302	294	869	289.7	2,628	33.1%
92657	39	48	54	141	47.0	383	36.8%
92660	86	108	102	296	98.7	846	35.0%
92661	5	18	8	31	10.3	74	41.9%
92662	4	7	11	22	7.3	48	45.8%
92663	87	71	76	234	78.0	537	43.6%
92672	148	166	148	462	154.0	1,705	27.1%
92673	129	138	150	417	139.0	1,284	32.5%
92675	151	155	129	435	145.0	1,471	29.6%
92676	5	10	6	21	7.0	52	40.4%
92677	235	237	217	689	229.7	2,034	33.9%
92679	125	123	101	349	116.3	984	35.5%
92683	390	403	407	1,200	400.0	3,821	31.4%
92688	255	264	245	764	254.7	2,291	33.3%

Table 10.8 (continued)
Orange County Births
Cesarean Sections, 2004-2006

Percentage of Incidents by ZIP Code of Residence

ZIP Code	2004	2005	2006	3 Year Total	3 Year Average Births	3 Year Total Births	Percent of Live Births
92691	159	152	138	449	149.7	1,571	28.6%
92692	164	161	166	491	163.7	1,464	33.5%
92694	166	200	234	600	200.0	1,736	34.6%
92697	0	0	0	0	0.0	1	0.0%
92701	453	494	486	1,433	477.7	4,338	33.0%
92703	553	539	577	1,669	556.3	5,022	33.2%
92704	646	611	654	1,911	637.0	5,929	32.2%
92705	211	211	229	651	217.0	1,910	34.1%
92706	259	258	279	796	265.3	2,442	32.6%
92707	413	455	515	1,383	461.0	4,100	33.7%
92708	178	177	177	532	177.3	1,632	32.6%
92780	307	304	336	947	315.7	2,893	32.7%
92782	112	105	115	332	110.7	878	37.8%
92801	358	360	400	1,118	372.7	3,822	29.3%
92802	275	281	240	796	265.3	2,608	30.5%
92804	478	491	493	1,462	487.3	4,690	31.2%
92805	420	438	446	1,304	434.7	4,475	29.1%
92806	179	185	202	566	188.7	1,963	28.8%
92807	104	128	102	334	111.3	1,188	28.1%
92808	81	114	78	273	91.0	820	33.3%
92821	114	138	117	369	123.0	1,193	30.9%
92823	22	13	18	53	17.7	183	29.0%
92831	139	140	128	407	135.7	1,482	27.5%
92832	145	123	117	385	128.3	1,386	27.8%
92833	253	214	239	706	235.3	2,277	31.0%
92835	64	78	68	210	70.0	709	29.6%
92840	289	273	331	893	297.7	2,751	32.5%
92841	138	172	167	477	159.0	1,513	31.5%
92843	247	237	296	780	260.0	2,565	30.4%
92844	113	102	118	333	111.0	1,109	30.0%
92845	40	65	53	158	52.7	488	32.4%
92861	11	12	14	37	12.3	91	40.7%
92862	1	0	0	1	0.3	3	33.3%
92865	94	76	84	254	84.7	804	31.6%
92866	86	86	67	239	79.7	732	32.7%
92867	212	203	243	658	219.3	2,012	32.7%
92868	122	112	134	368	122.7	1,099	33.5%
92869	181	171	174	526	175.3	1,600	32.9%
92870	232	224	211	667	222.3	2,256	29.6%
92886	131	103	127	361	120.3	1,262	28.6%
92887	48	58	54	160	53.3	538	29.7%
Unknown	0	0	2	2	0.7	17	11.8%
Total	14,019	14,082	14,606	42,707	14,235.7	133,278	32.0%

Orange County Births - Cesarean Sections Percentage of Incidents by ZIP Code of Residence (2004-2006)



Based on 3-year total births, this map does not display <1.0% (11/42,716) of cases with an unknown or P.O. Box ZIP Code.

Data Source: 2004-2006 Orange County Master Birth File