

Orange County Health Care Agency & Sheriff-Coroner

# 2017

## Opioid Overdose & Death

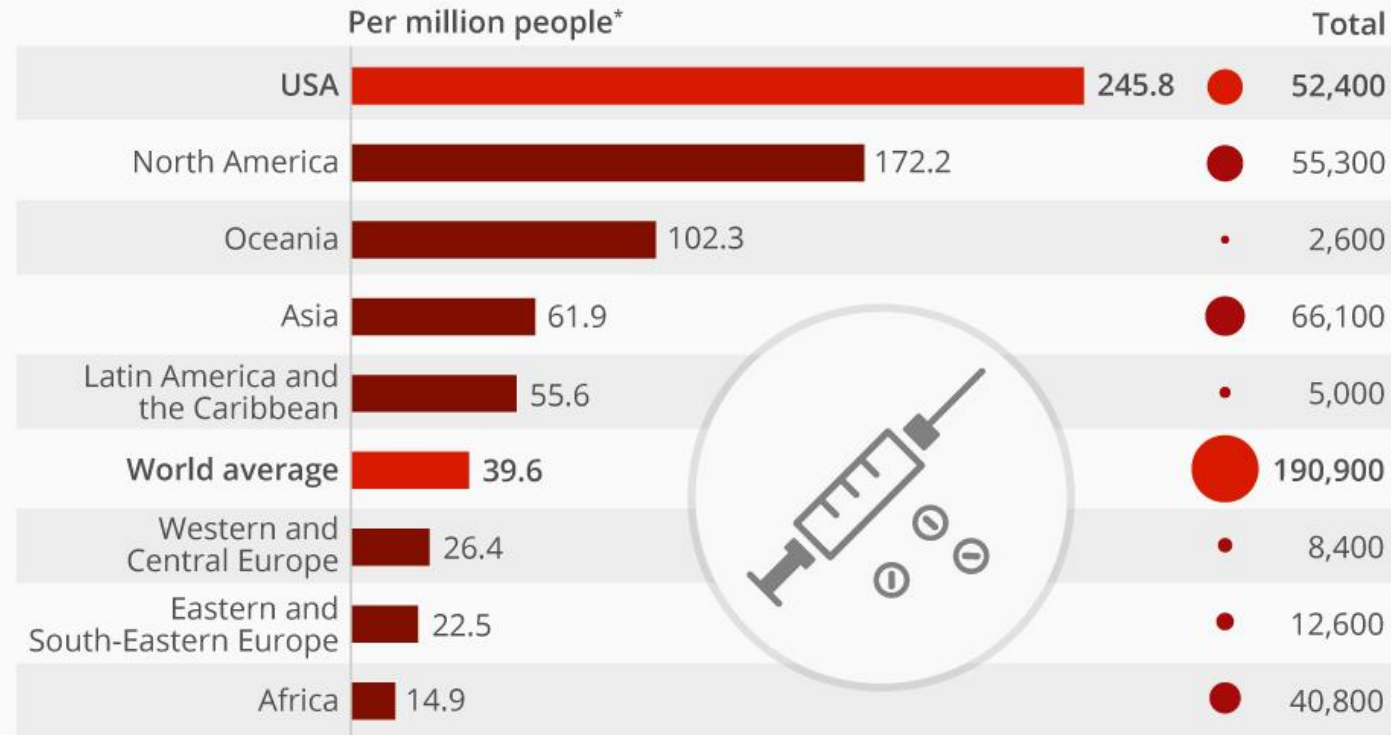
in Orange County

# Overview

- Global Drug Deaths
- U.S. Drug Death Trends
- Drug Deaths in California & Orange County
- Opioids in Orange County
  - Prescriptions: California DOJ CURES Database
  - Morbidity: ED Visits & Hospitalizations
  - Mortality: Deaths

# America Has The Highest Drug-Death Rate in the World

Estimated number of drug-related deaths and mortality rate 2015



# Drug Overdose Deaths in the U.S.

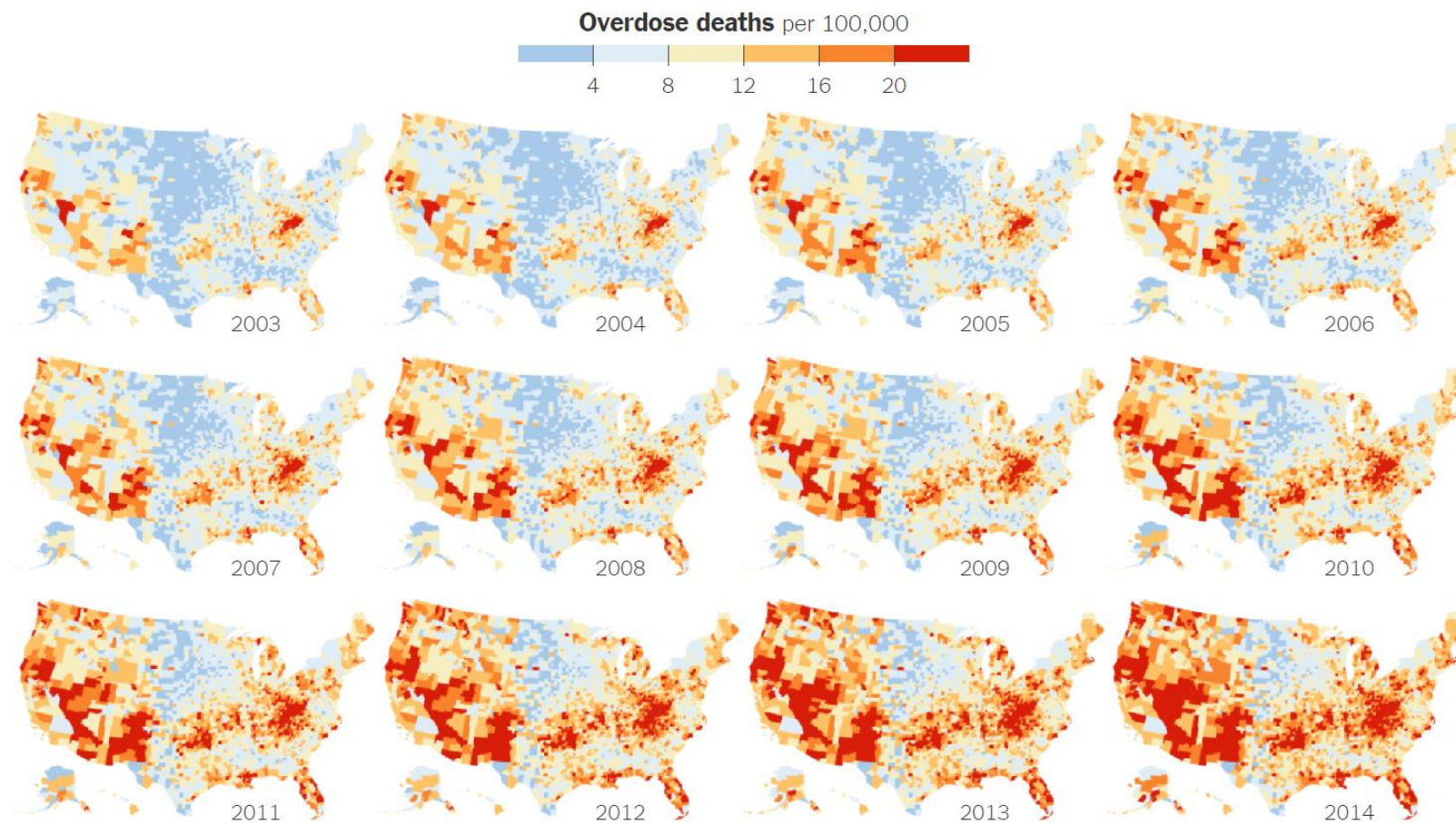
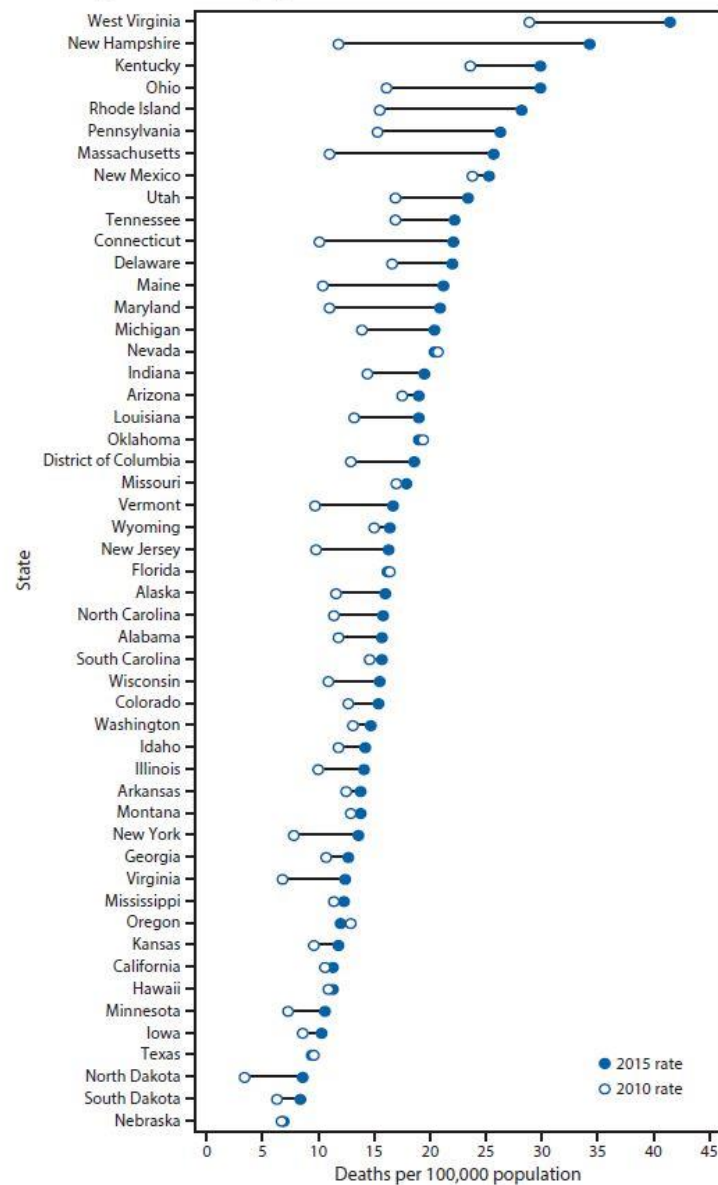


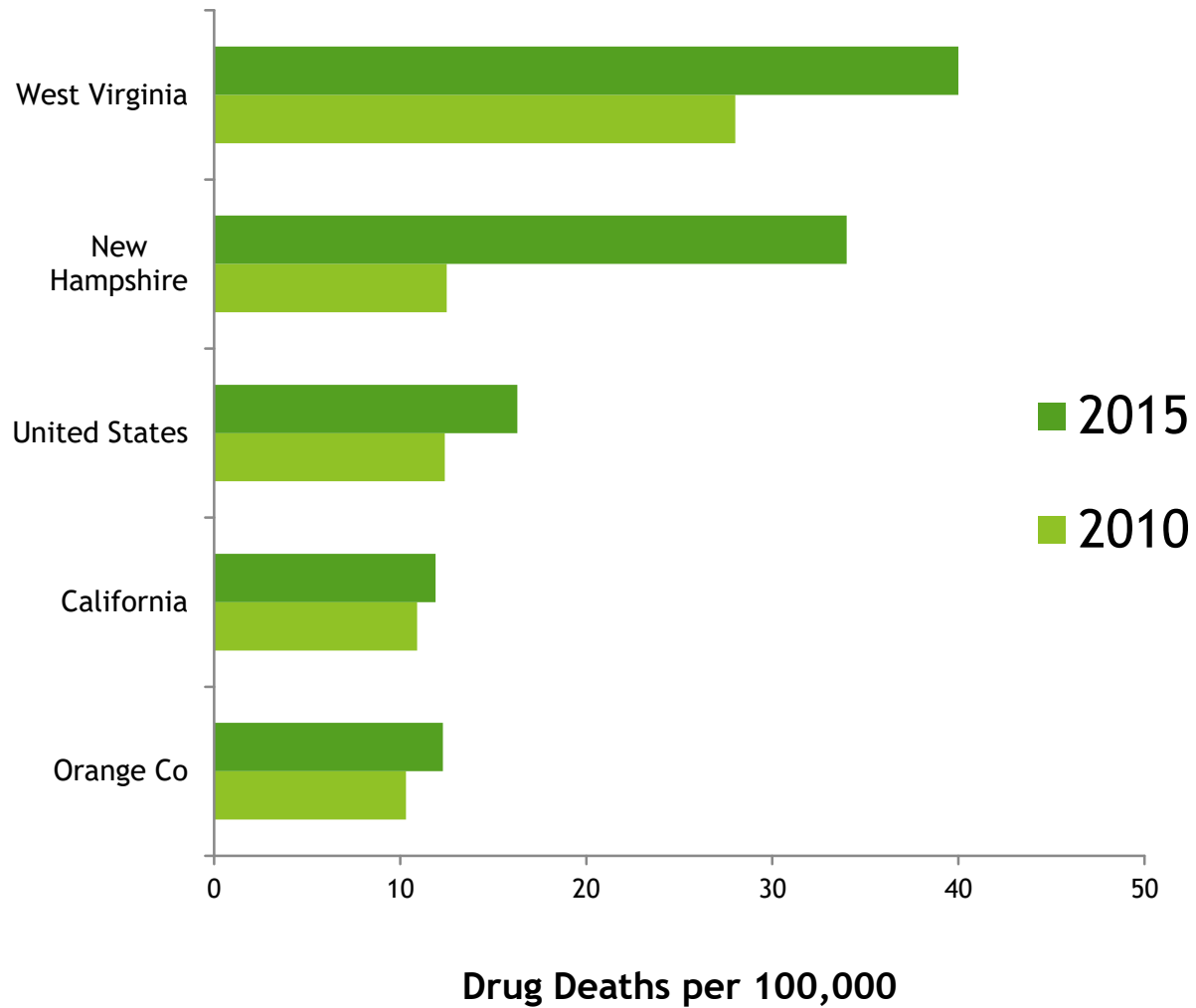


FIGURE. Age-adjusted rate\* of drug overdose deaths,† by state — 2010 and 2015<sup>§</sup>

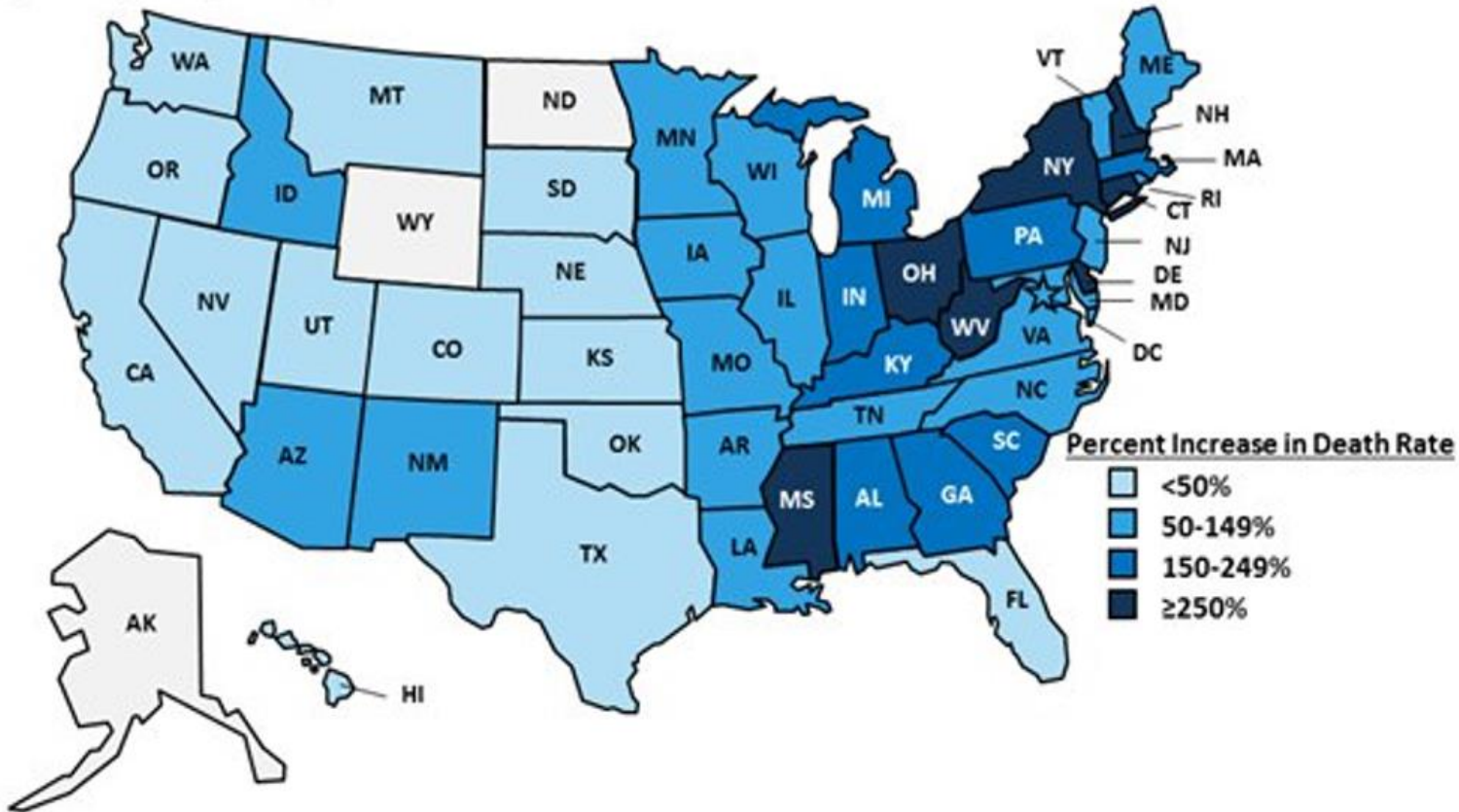


Source: CDC, National Vital Statistics System, Mortality, CDC WONDER, Atlanta, GA: US Department of Health and Human Services, CDC; 2016. <https://wonder.cdc.gov/>.  
 \* Rates shown are the number of deaths per 100,000 population. Age-adjusted death rates were calculated by applying age-specific death rates to the 2000 U.S. standard population age distribution.  
 † Deaths were classified using the *International Classification of Diseases, Tenth Revision* (ICD-10). Drug overdose deaths were identified using underlying cause-of-death codes X40–X44, X60–X64, X85, and Y10–Y14.

# Drug Death Rates



**Between 2005 and 2015, the increases in the opioid overdose death rate were particularly prominent in CT, DE, MS, NH, NY, OH, and WV.**



SOURCE: Kaiser Family Foundation analysis of Centers for Disease Control and Prevention (CDC), National Center for Health Statistics, Multiple Cause of Death 1999-2015 on CDC WONDER Online Database

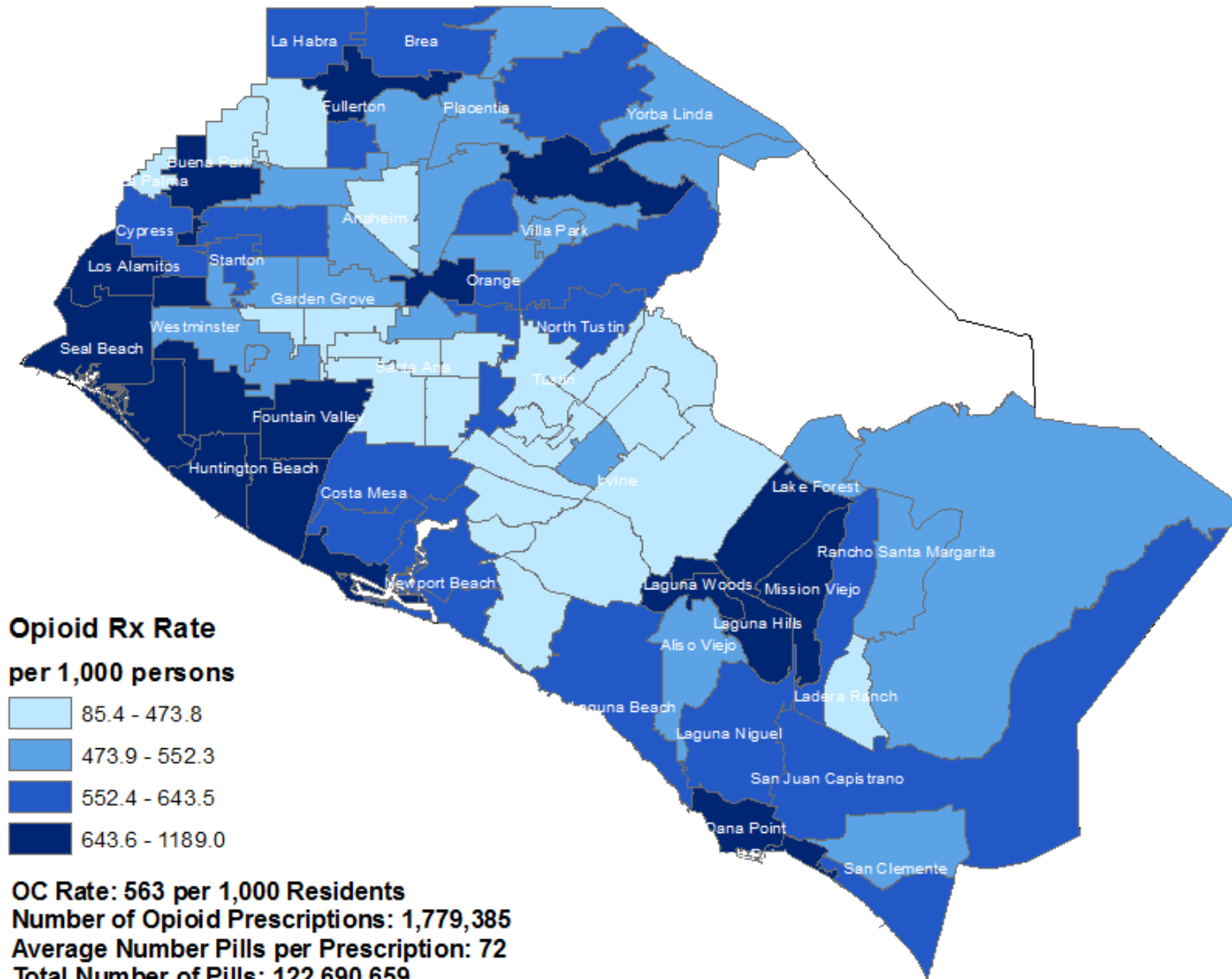
# Opioid Prescriptions in Orange County

## California DOJ Controlled Substance Utilization Review & Evaluation (CURES) Database

- Almost half (45%) of the four million prescriptions to OC residents for narcotics reported in the in 2015 were for opioid analgesics.
- A total of **1,711,809** prescriptions for opioids (e.g., hydrocodone, oxycodone) were dispensed to OC residents in 2015.
- The average prescription was for **72 pills** which corresponded to over **122,000,000 pills** in one year alone (~40 pills per resident/year)



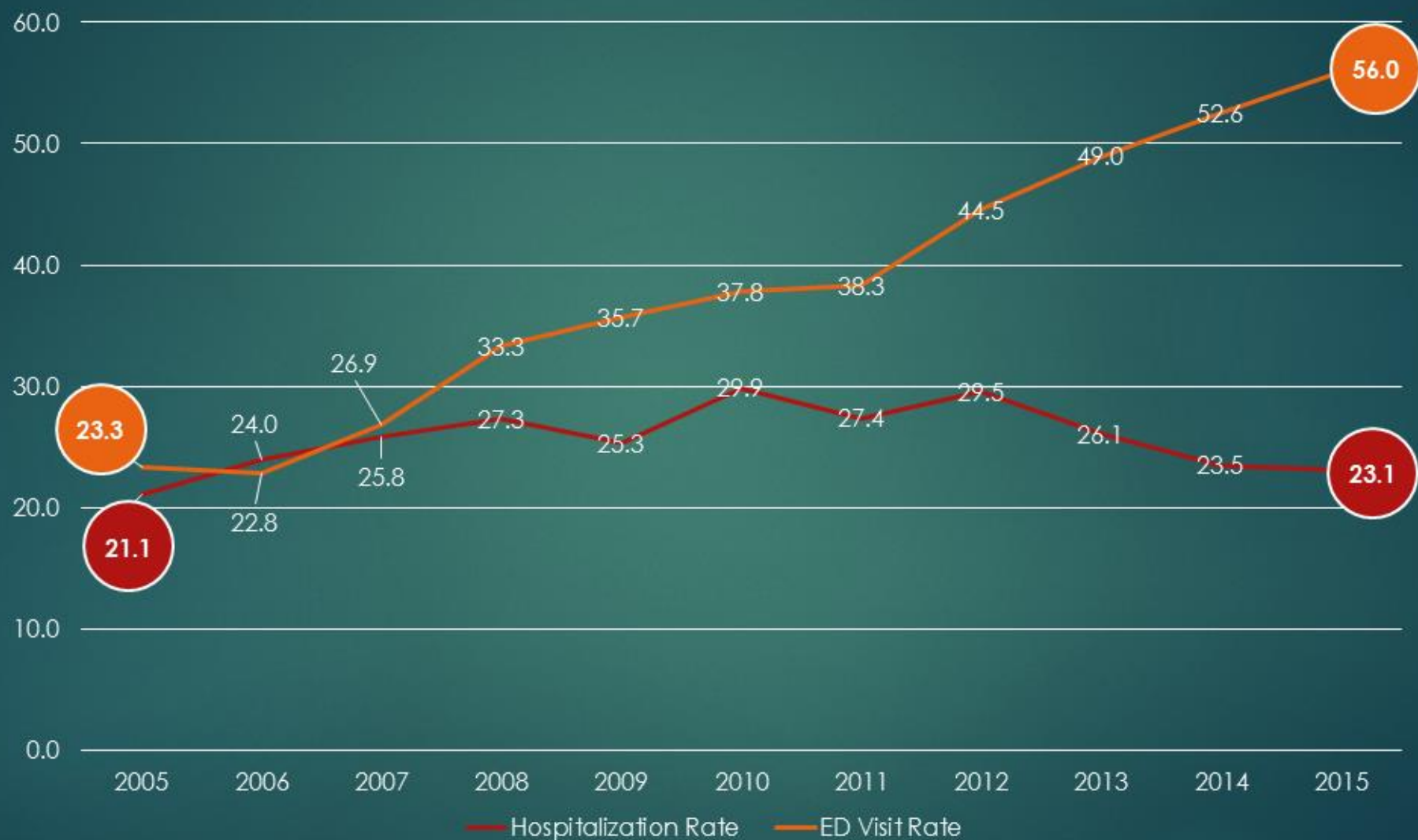
## OPIOID PRESCRIPTIONS BY PATIENT ZIP CODE (2015)



The background of the slide features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

# Opioid-Related Emergency Department (ED) Visits and Hospitalizations in Orange County (2005-2015)

## Opioid-Related Emergency Department Visits and Hospitalizations (2005-2015)



## Opioid-Related Emergency Department Visits by Gender (2011-2015)



**MALE**

**FEMALE**



Average number of  
males per year

906

Average number of  
females per year

585

Average 5-year male rate  
per 100,000 persons

59.1

Average 5-year female  
rate per 100,000 persons

37.4

Male percentage of all  
Emergency  
Department visits

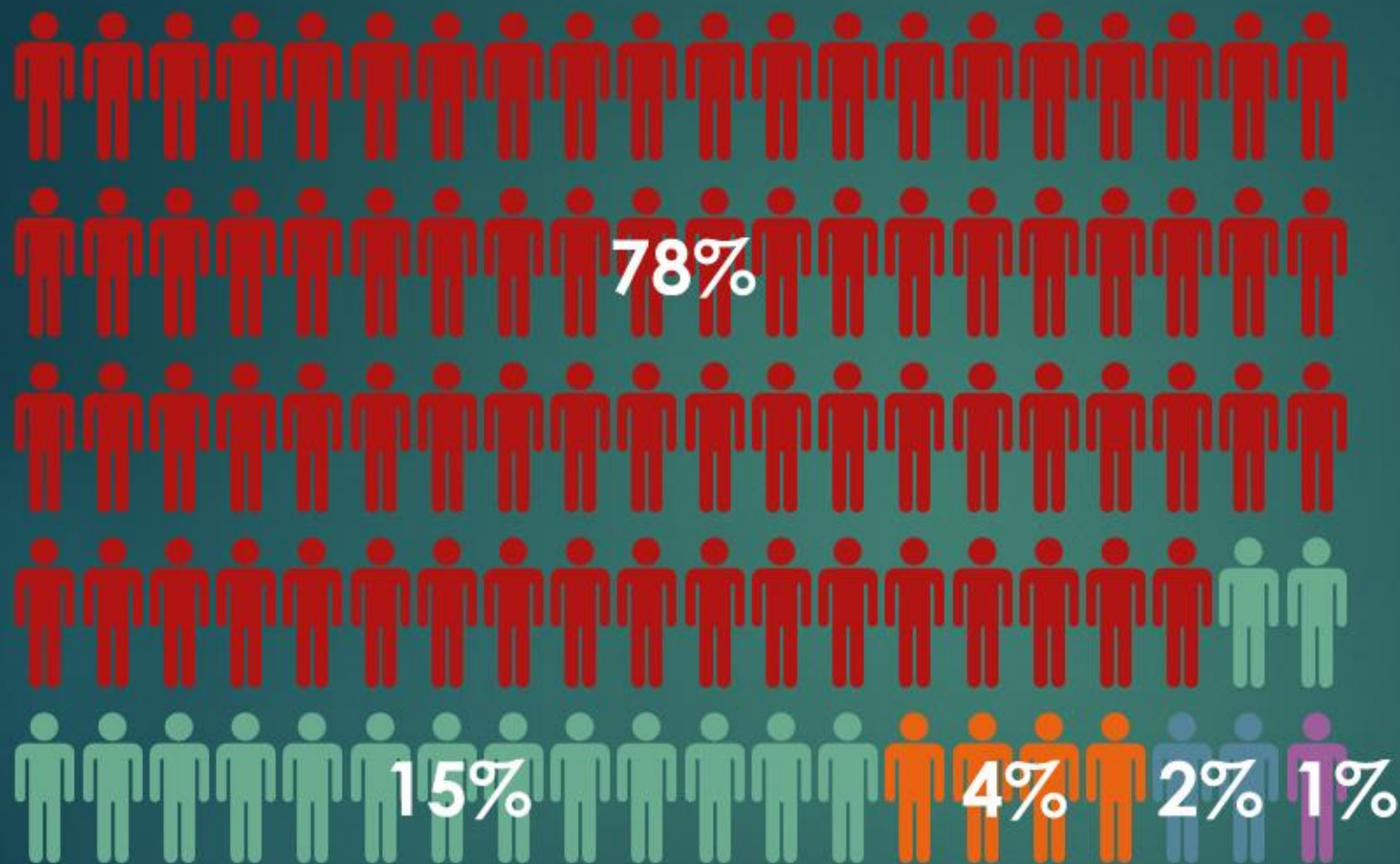
61%

Female percentage of  
all Emergency  
Department visits

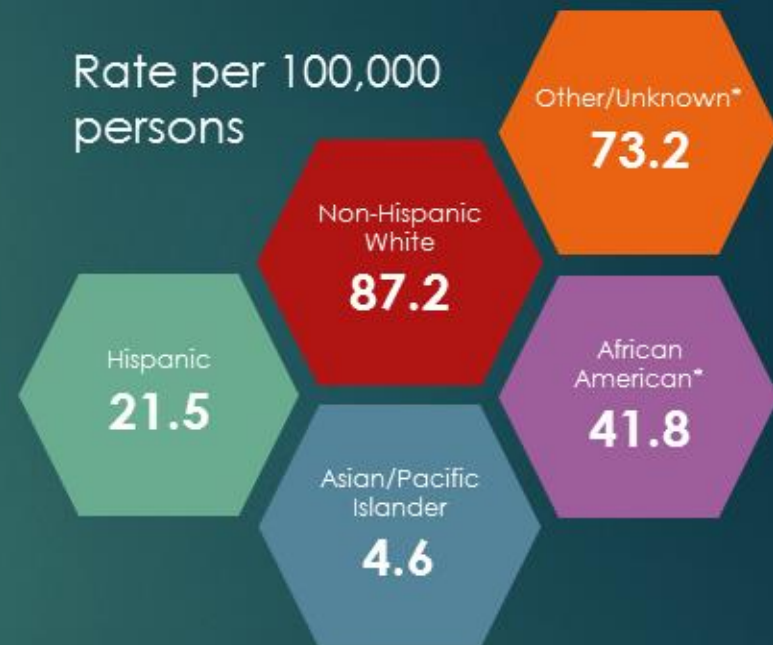
39%



# Opioid-Related Emergency Department Visits by Race/Ethnicity (2011-2015)



Rate per 100,000 persons



■ Non-Hispanic White

■ Asian/Pacific Islander

■ Hispanic

■ African American

■ Other/Unknown

\*Rate should be interpreted with caution due to small population size



## Opioid-Related Emergency Department Visits by Age Group (2011-2015)

Rate per  
100,000  
persons

<9 Years	10-17 Years	18-24 Years	25-34 Years	35-44 Years	45-54 Years	55-64 Years	65+ Years
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2.3

11.6

133.8

82.7

40.1

45.2

45.9

31.7

Average  
number of ED  
visits per year

9

39

425

352

171

205

165

125

Percentage of  
ED visits

1%

3%

28%

24%

11%

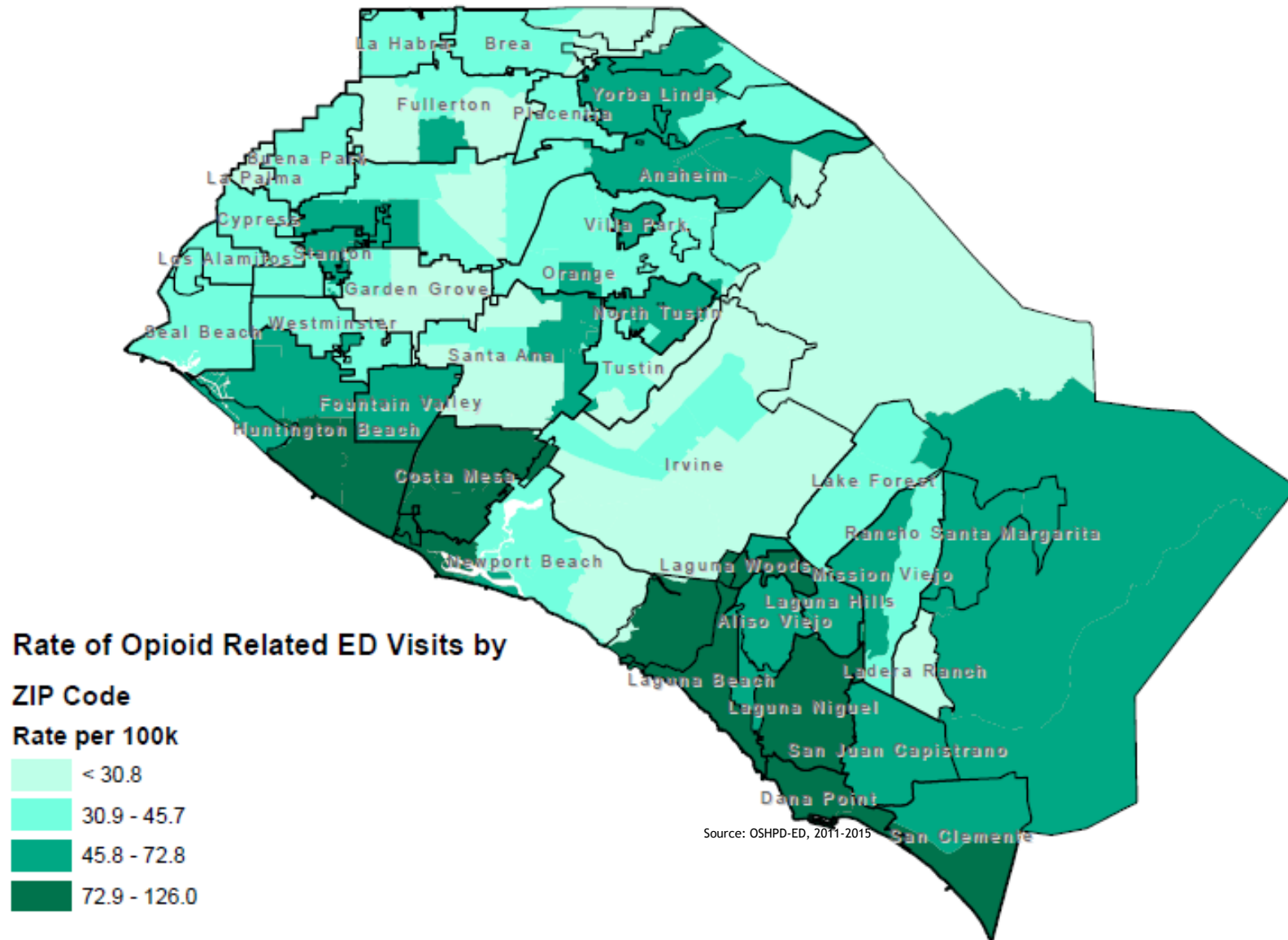
14%

11%

8%



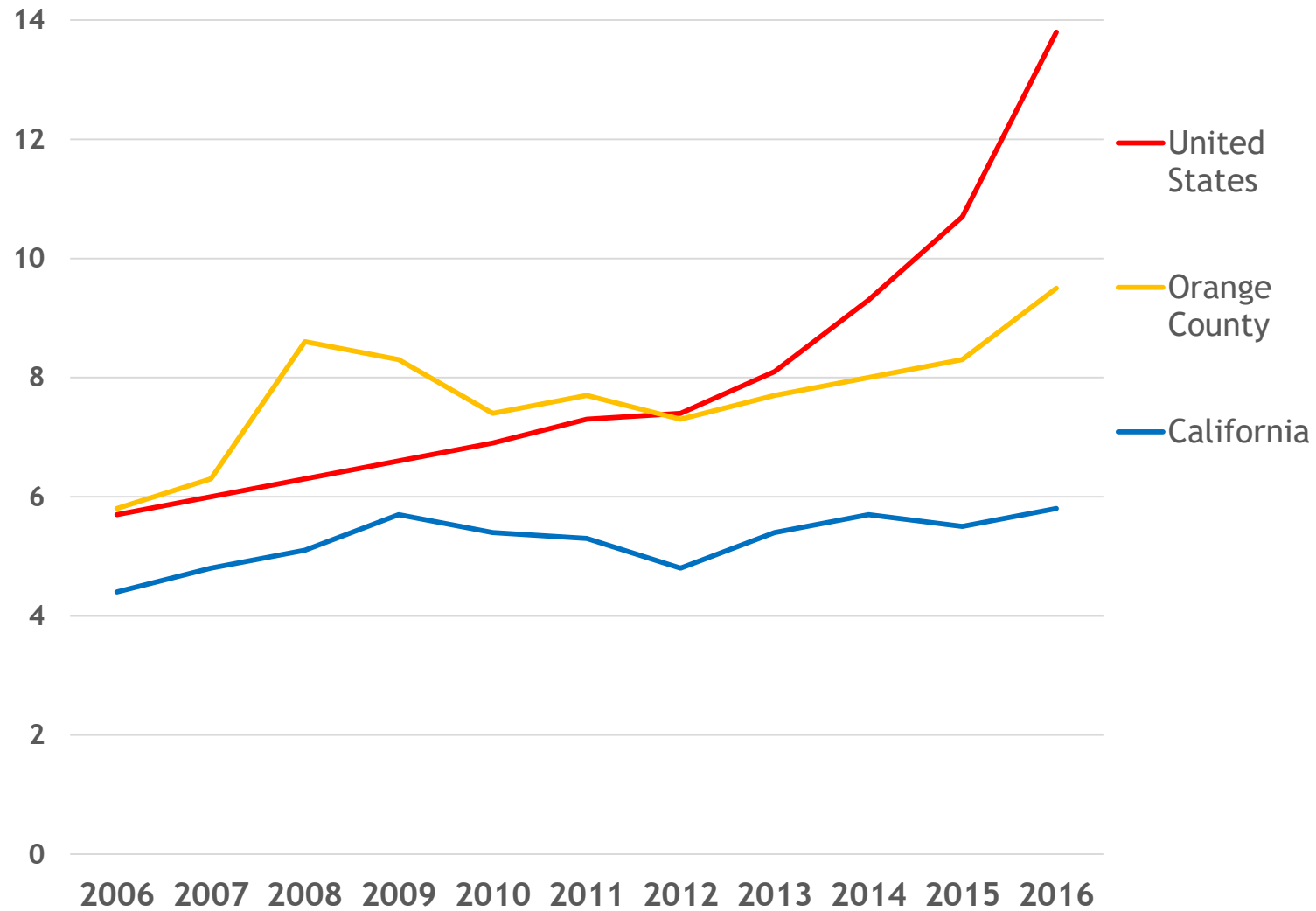
# Opioid-Related ED Visits by ZIP Code (2011-2015)



# Opioid-Related Overdose Deaths in Orange County (2011-2015)

Source: OC Coroner, 2011-2015

# OPIOID OVERDOSE DEATH RATES



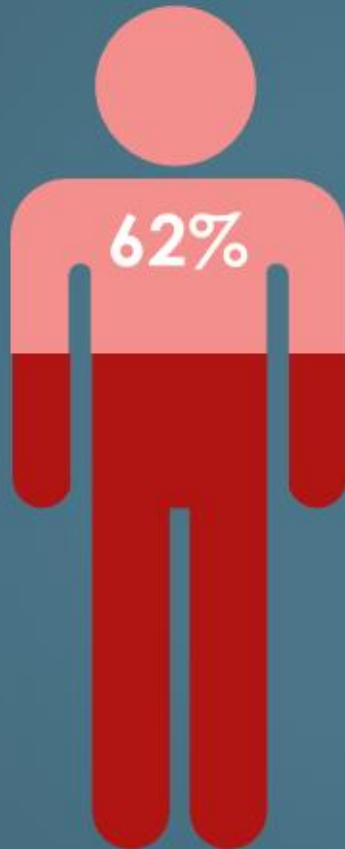
## Opioid-Related Overdose Deaths by Gender (2011-2015)



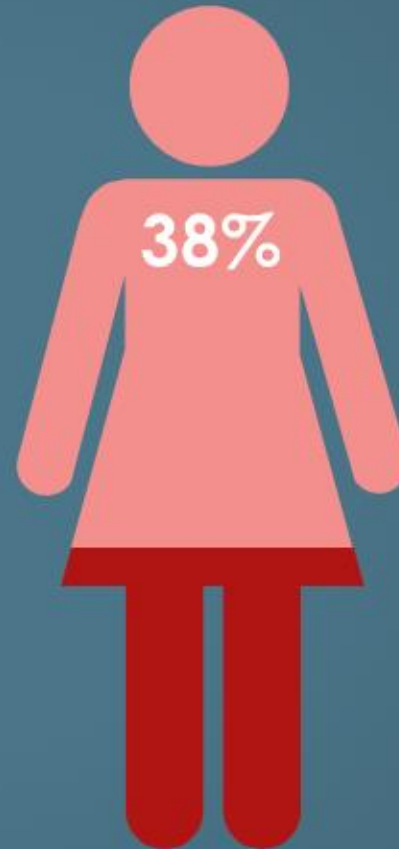
Average number of male overdose deaths per year



Average 5-year male rate per 100,000 persons



**MALE**



**FEMALE**



Average number of female overdose deaths per year



Average 5-year female rate per 100,000 persons





## Opioid-Related Overdose Deaths by Race/Ethnicity (2011-2015)

NON-  
HISPANIC  
WHITE



HISPANIC



ASIAN/  
PACIFIC  
ISLANDER



AFRICAN  
AMERICAN

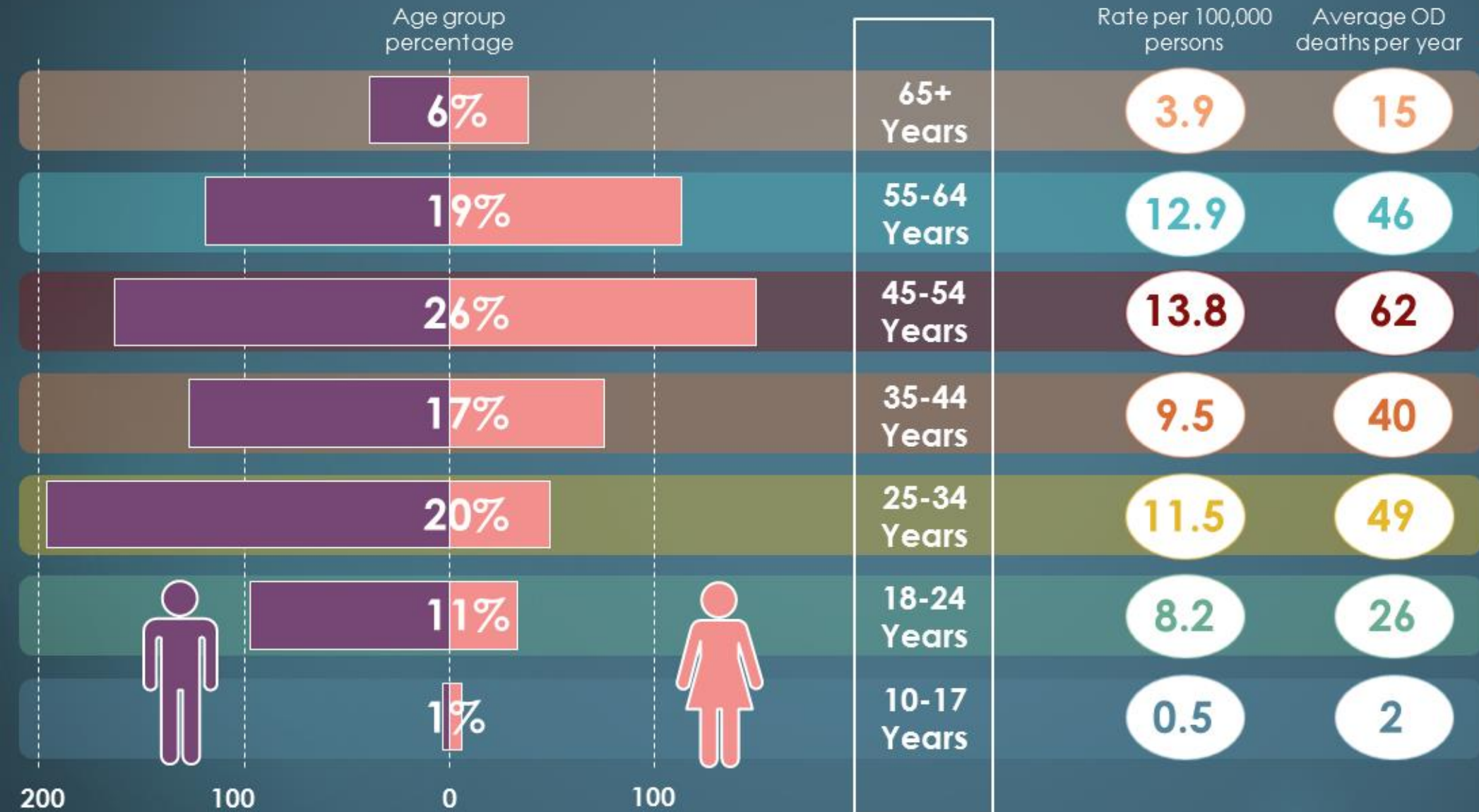


Rate per 100,000  
persons

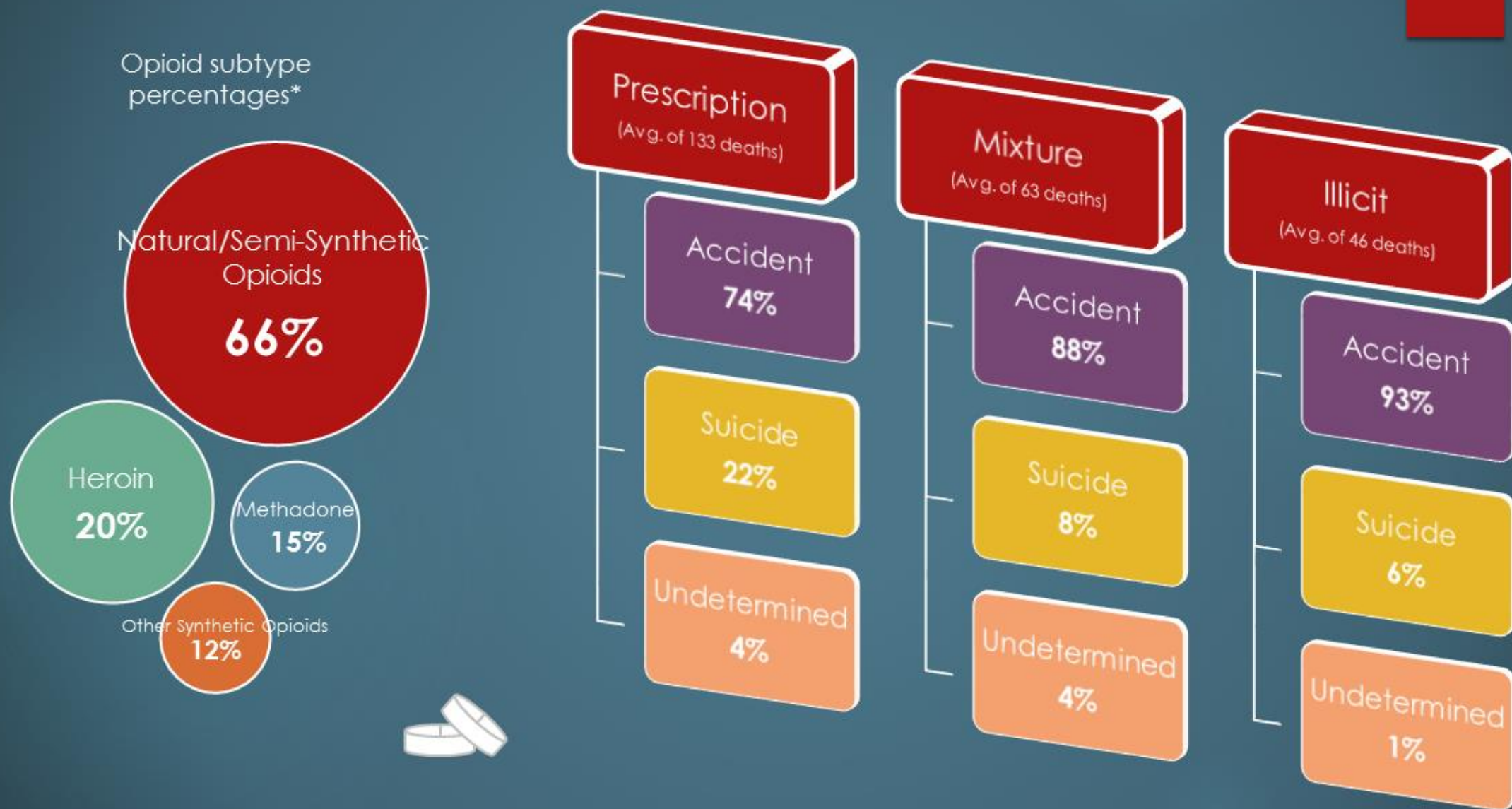


\*Rate should be interpreted with caution due to small population size

## Opioid-Related Overdose Deaths by Gender and Age Group (2011-2015)

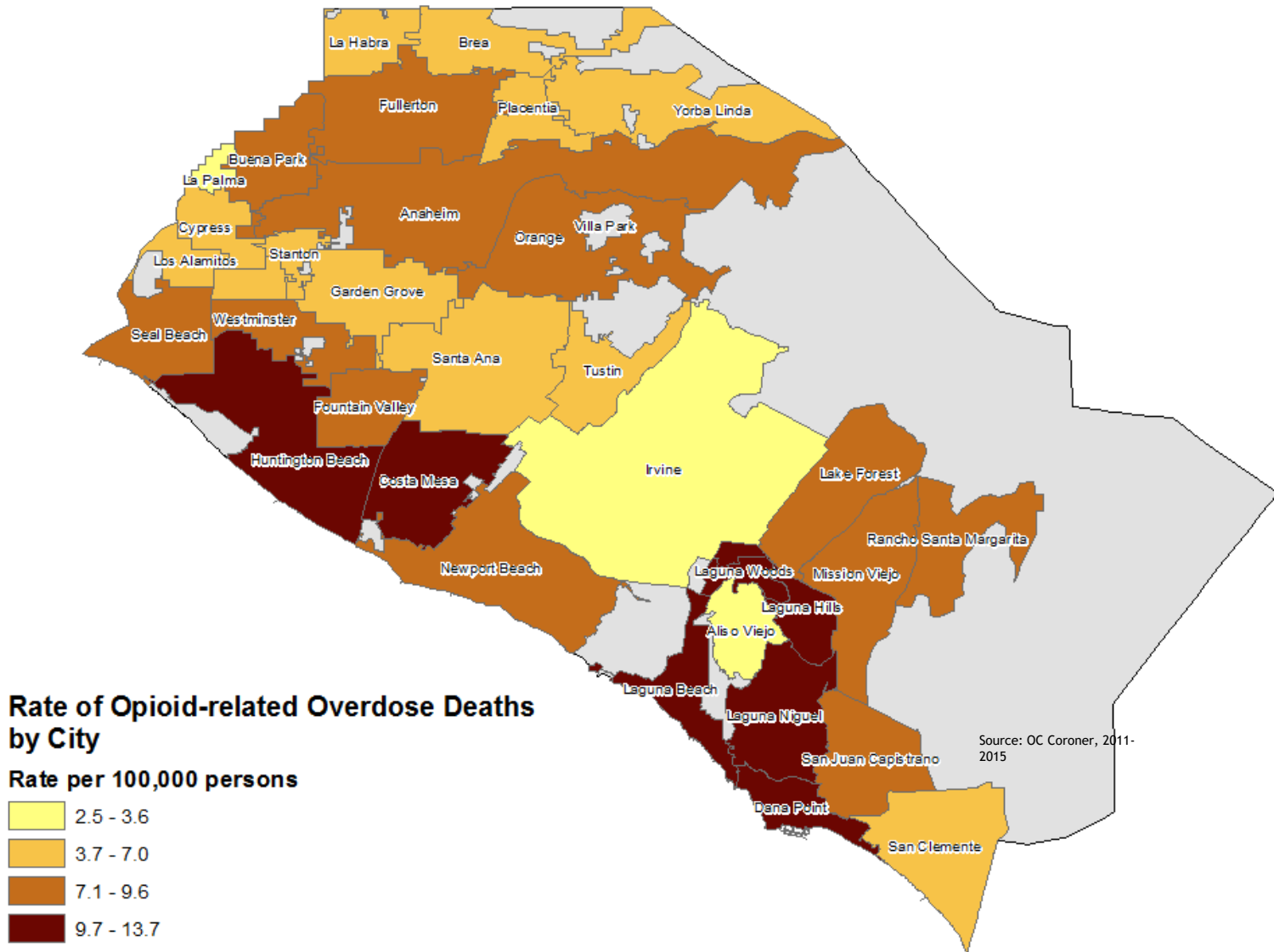


## Opioid-Related Overdose Deaths by Opioid Type and Intent (2011-2015)



\*Drug cause of death may indicate more than one type of opioid found prior to overdose.

# Opioid-Related Overdose Deaths by City (2011-2015)





## Opioid-Related ED Visits, Hospitalizations, & Deaths in Orange County

