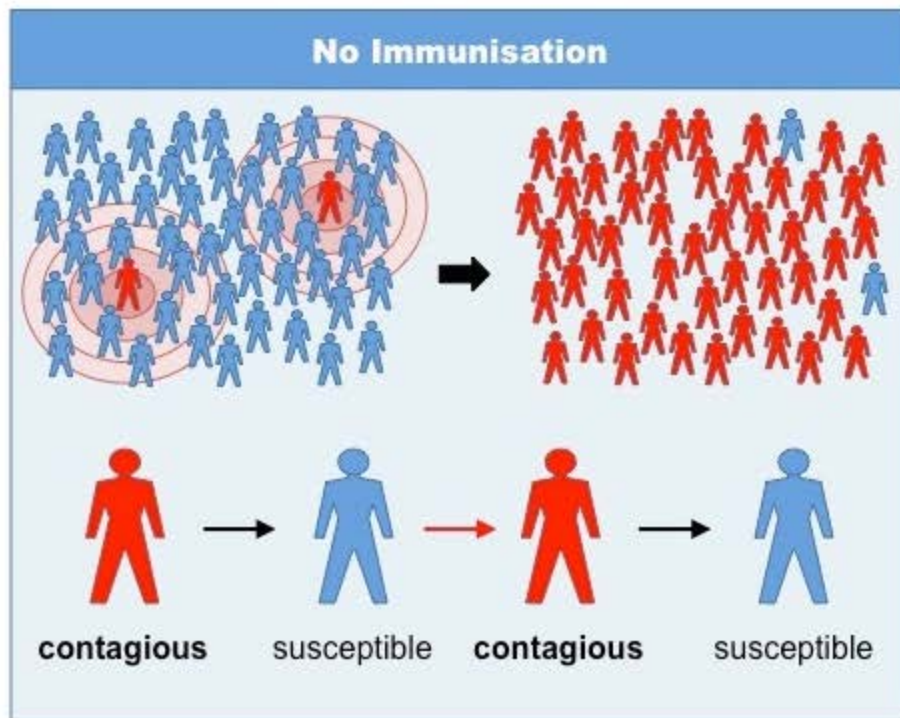
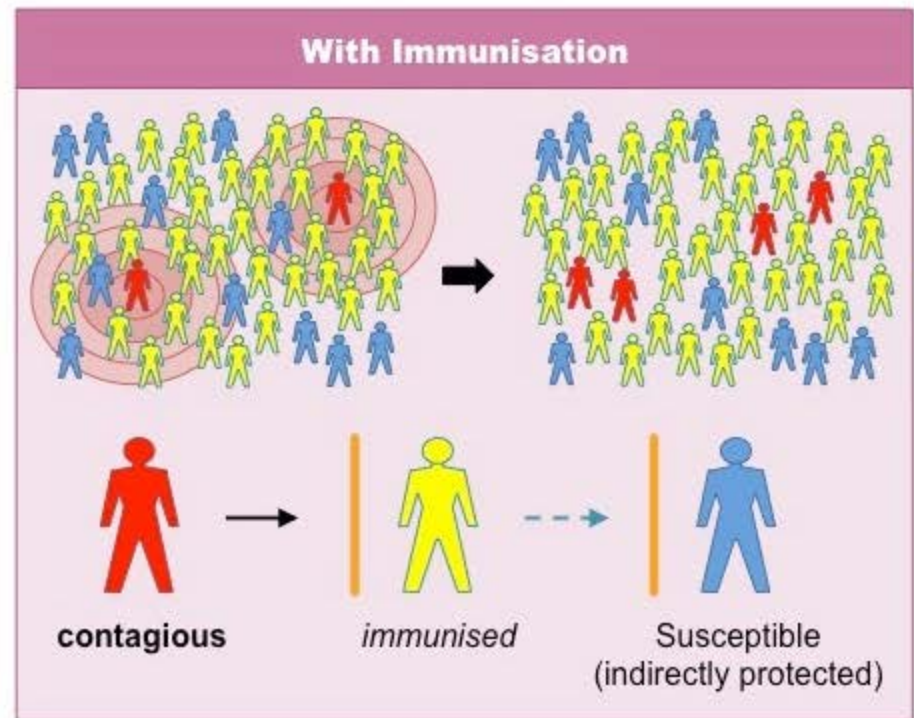


# Think Globally Immunize Locally



Infectious agent passes freely from contagious to susceptible



Contagion **cannot** freely pass via immunised to susceptible

# Measles cases at 'alarmingly' high levels around the world, UNICEF says

By Nina Avramova, CNN

🕒 Updated 7:01 PM ET, Thu February 28, 2019

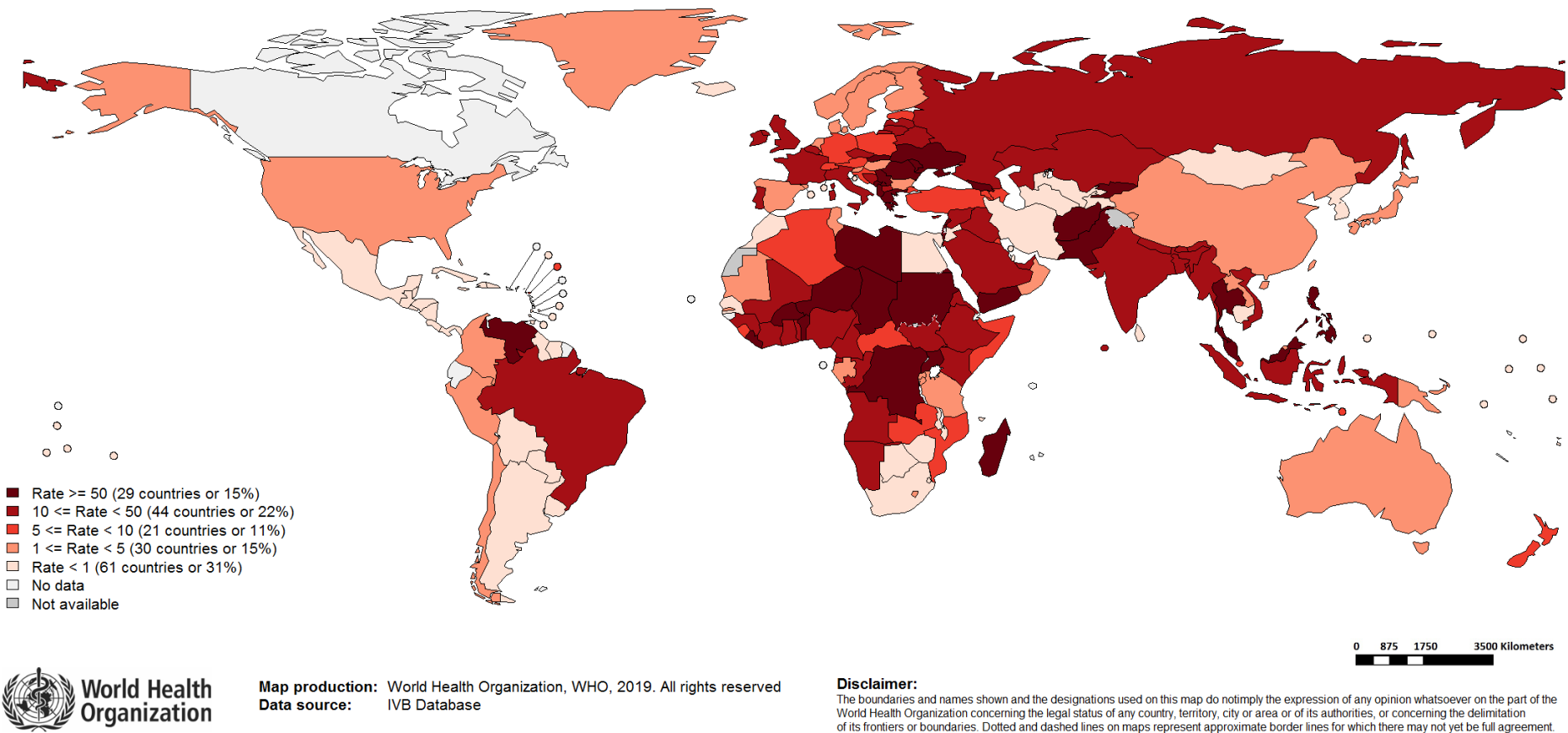


“Global measles cases increased by 48.4% between 2017 and 2018, according to calculations by UNICEF of data on 194 countries from the World Health Organization”.

Country	2017	2018	1/1 - 2/23/19
Ukraine	4,782	35,120	
The Philippines	2,407	15,599	12,736 (203 deaths)
Brazil	0	10,262	

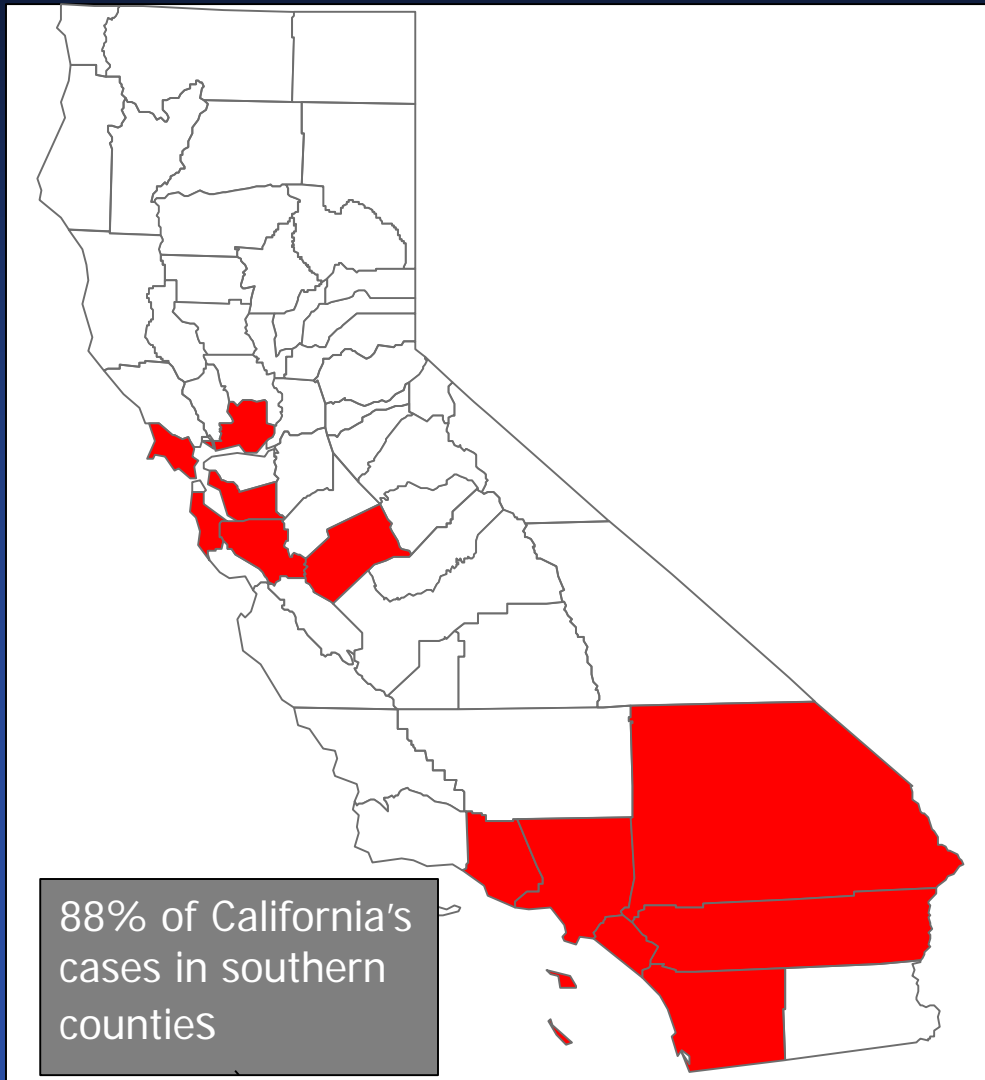
# Measles Outbreaks

## Domestic Tinder, Imported Sparks



# Measles Outbreak: 131 cases in California

## December 2014 – April 17th, 2015



### Other States:

Arizona	7
Utah	3
Nebraska	2
Washington	2
Colorado	1
Oregon	1

### Other Countries:

Canada	159
Mexico	1

Source: CDPH

# 2014-15 Disneyland Outbreak

Infants and intentionally unvaccinated at high risk

- Over half of 131 cases were adults
  - Decisions on immunization made many years ago
- Highest incidence (n= 19) in those < 15 months of age (13 were <1 year)
  - Too young for MMR#1
- Of 84 cases with immunization status verified, 60 were unimmunized, over half by choice
- 20% with available data were hospitalized
  - 2 adults with pneumonia, prolonged hospitalization and rehabilitation



# PUBLIC HEALTH

## MEASLES INVESTIGATION

Current investigation - *updated 3/04/2019*

- Age
  - 1 to 10 years: 51 cases
  - 11 to 18 years: 15 cases
  - 19 to 29 years: one case
  - 30 to 39 years: three cases
- Immunization status
  - Unimmunized: 61 cases
  - Unverified: seven cases
  - 1 MMR vaccine: two cases
- Hospitalization: one case (none currently)

VISITING ANOTHER COUNTRY? PROTECT YOUR FAMILY.

# THINK MEASLES.

Measles is widespread in places like Europe, Africa, Asia, India, and the Philippines.



## BEFORE YOU TRAVEL

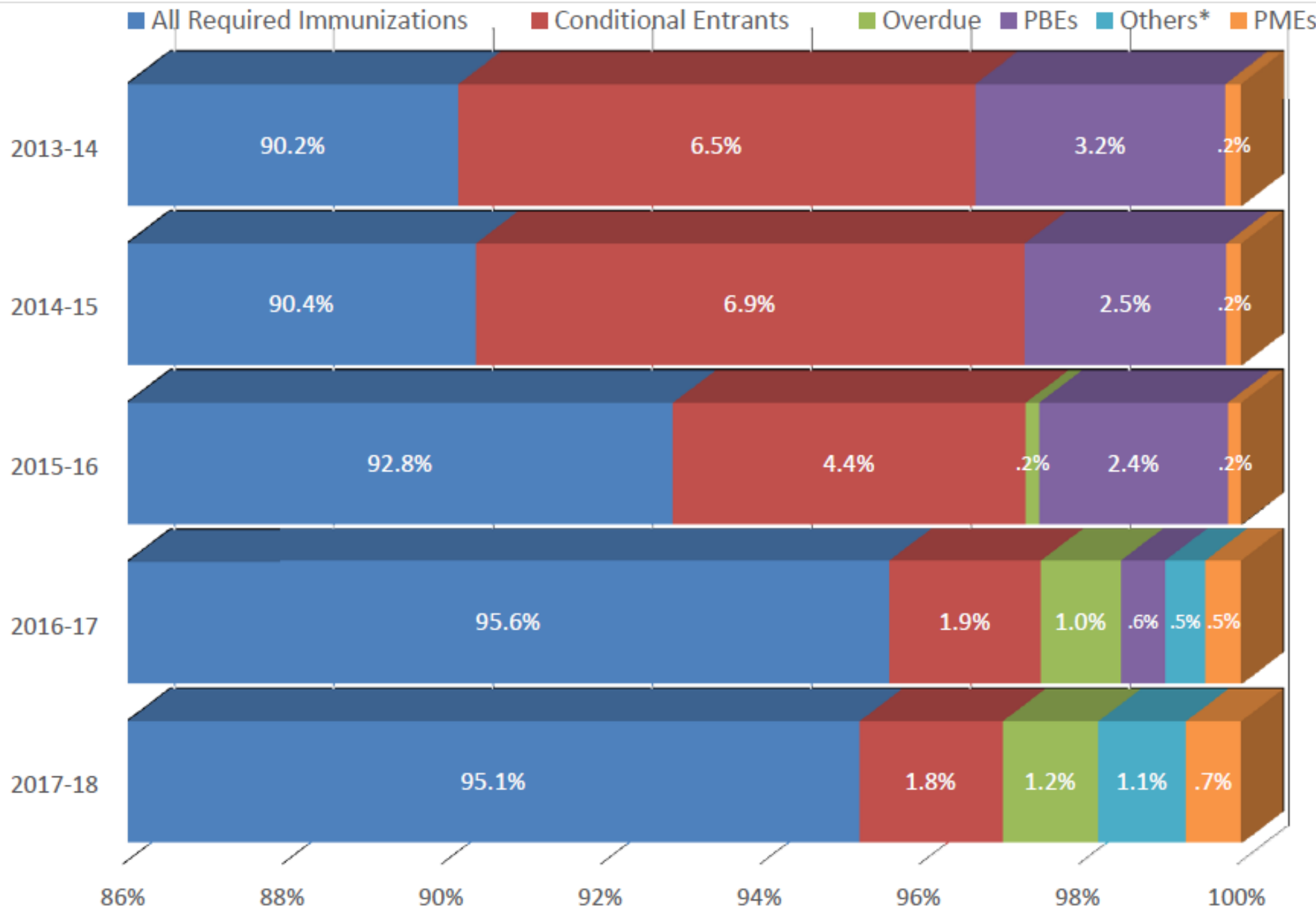
Tell your doctor where you are traveling. Babies and children may need measles protection at a younger age than usual.

## AFTER YOU TRAVEL

Call your doctor if anyone gets a fever and rash within 3 weeks of returning from your trip. Describe where you traveled.

✈ **Talk with your doctor if you are planning an international trip.**

For more information go to [www.cdc.gov/travel](http://www.cdc.gov/travel).

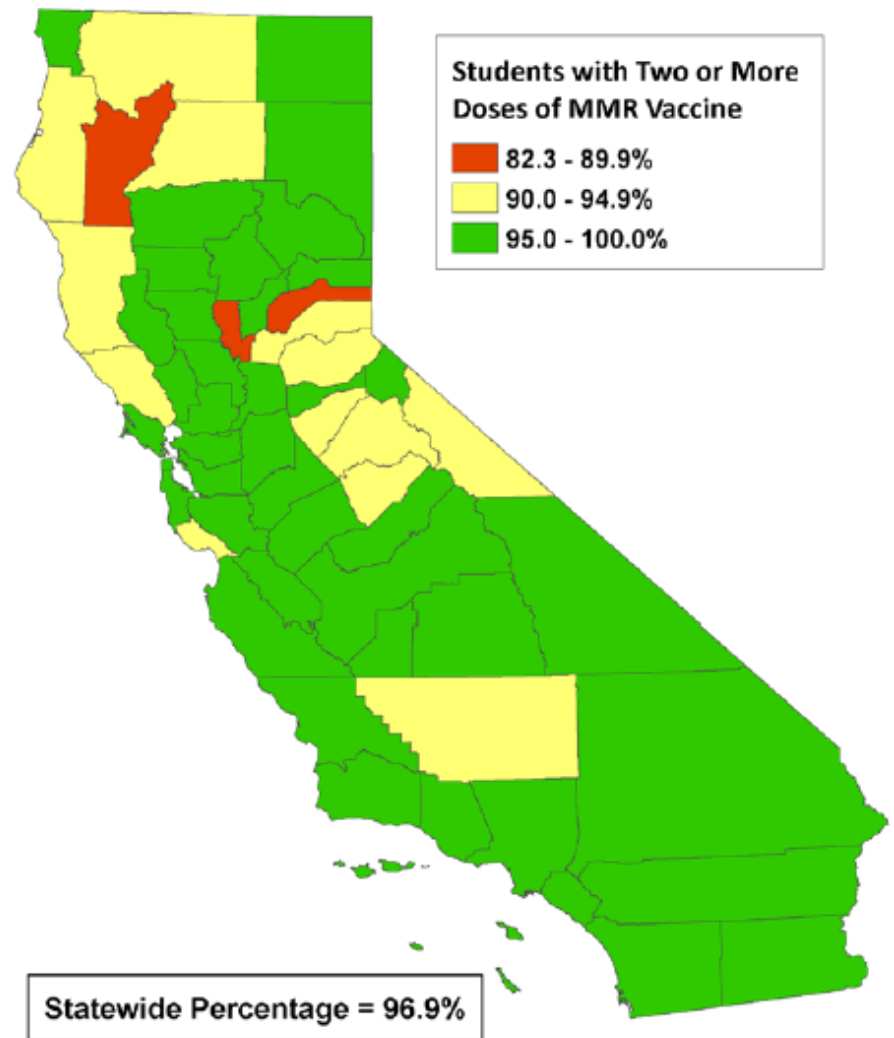
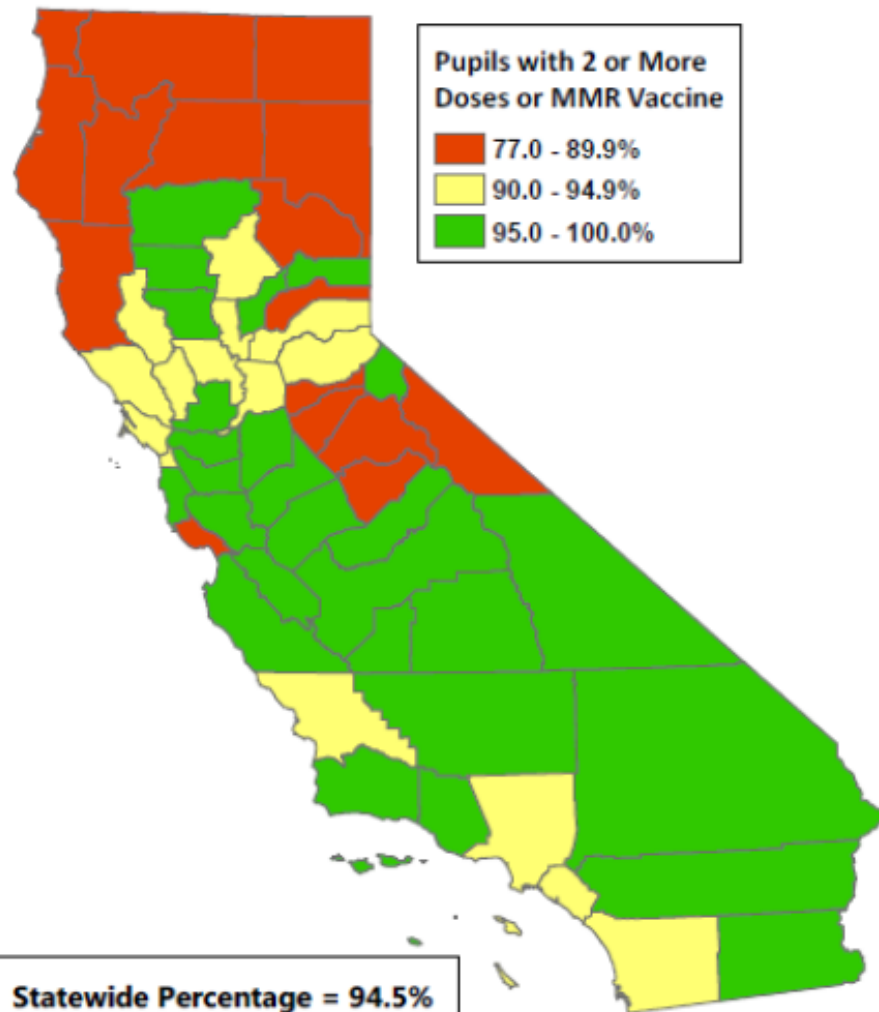


\*Other children lacking required immunizations under criteria specified in SB 277.



# High Rates Statewide...










**Figure 10. Kindergarten Students with 2 or More Doses of MMR Vaccine, by County, 2015-2016 and 2016-2017 School Years.**

# How Well-Vaccinated Is Your Child's Kindergarten?

## 2017-18 School Data

-  Safest (95-100% of students fully vaccinated)
-  Moderately Vulnerable (90-94.9% of students fully vaccinated)
-  More Vulnerable (80-89.9% of students fully vaccinated)
-  Most Vulnerable (less than 80.0% of students fully vaccinated)
-  Delinquent (Failed to report in in 2017-2018)\*

Address or Zip Code

25mi ▼

OR

School Name/School Code

Washington Elementary

Search

Address or Zip Code

92101

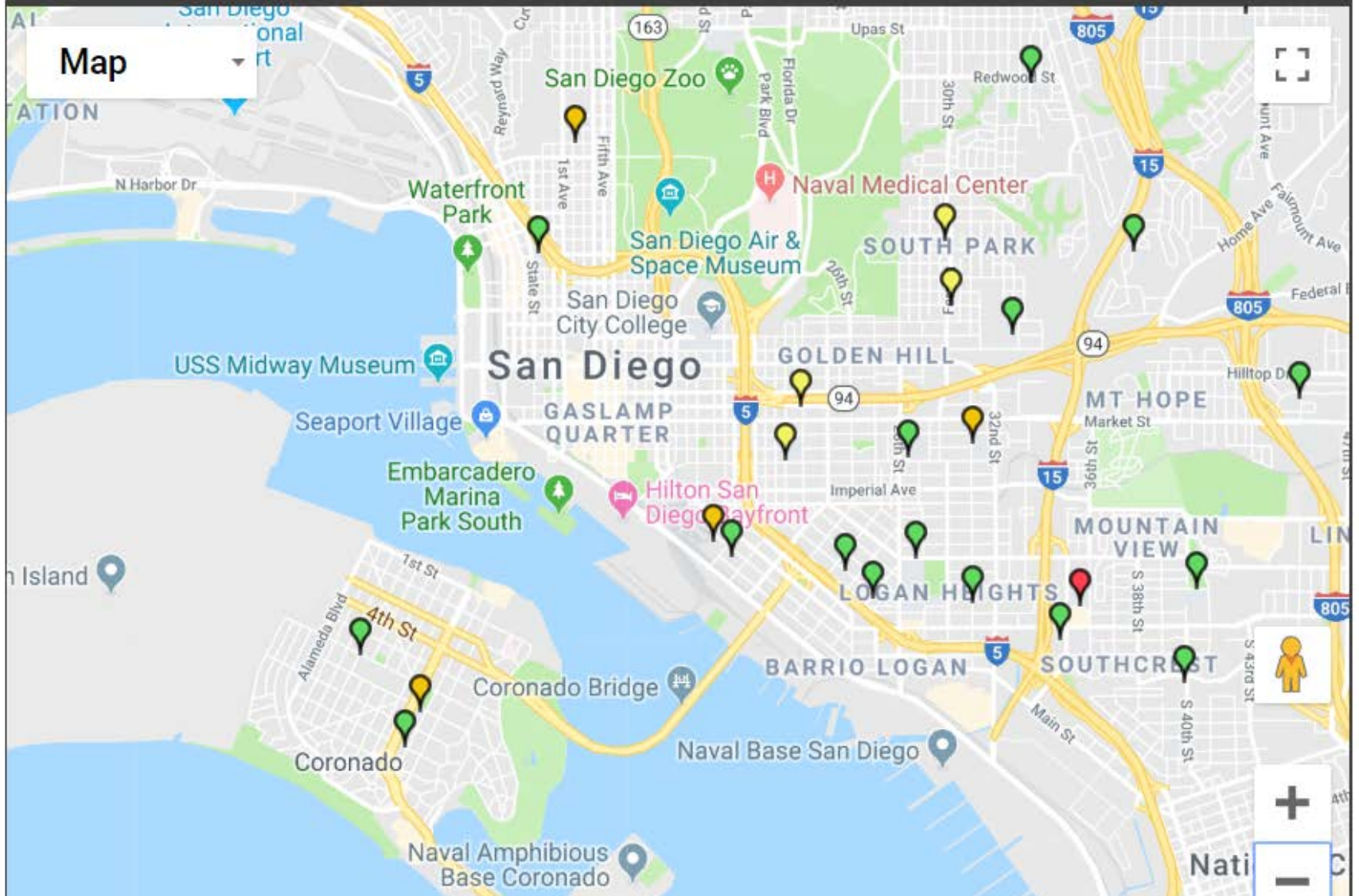
25mi ▾

OR

School Name/School Code

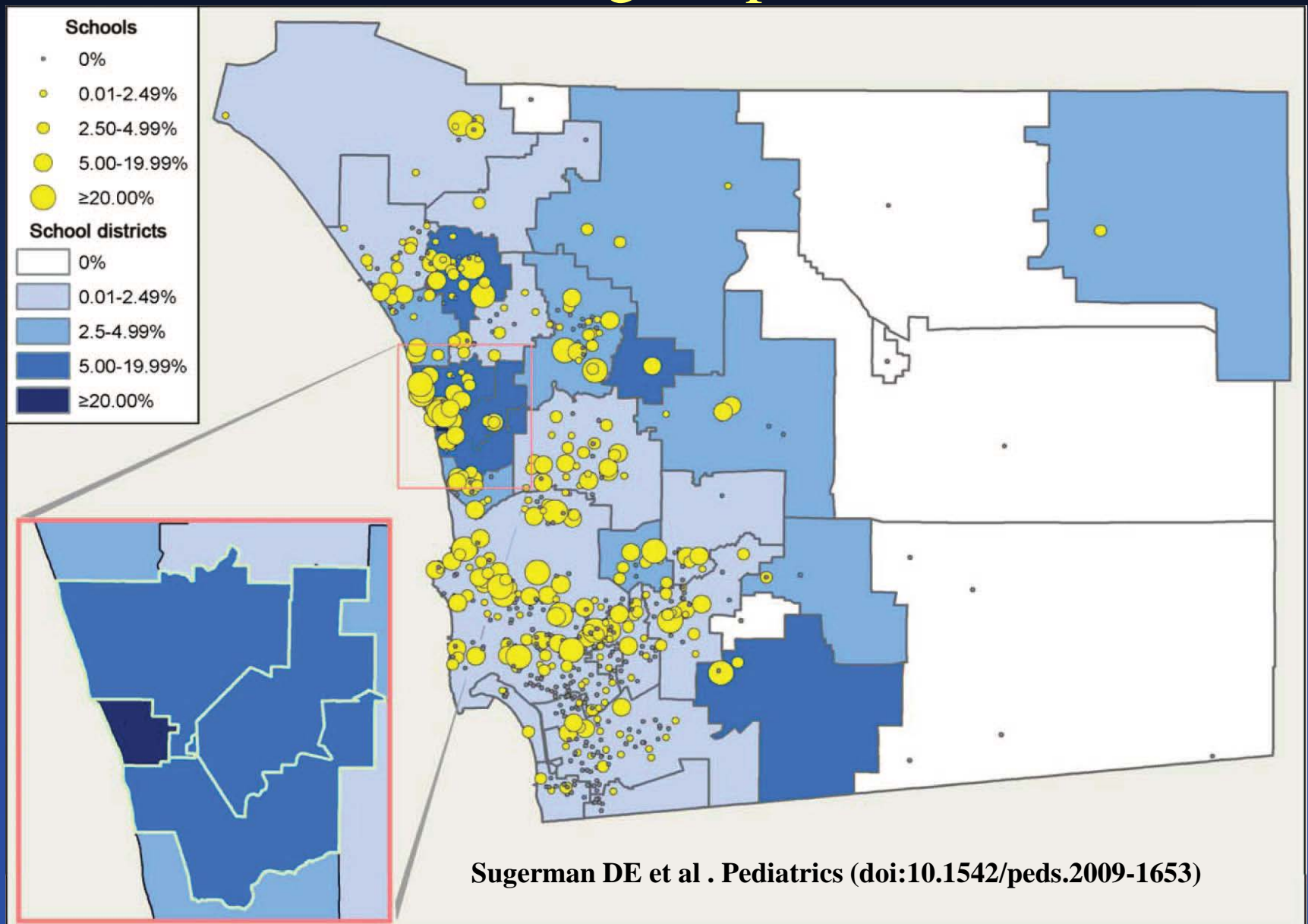
Search

Map ▾

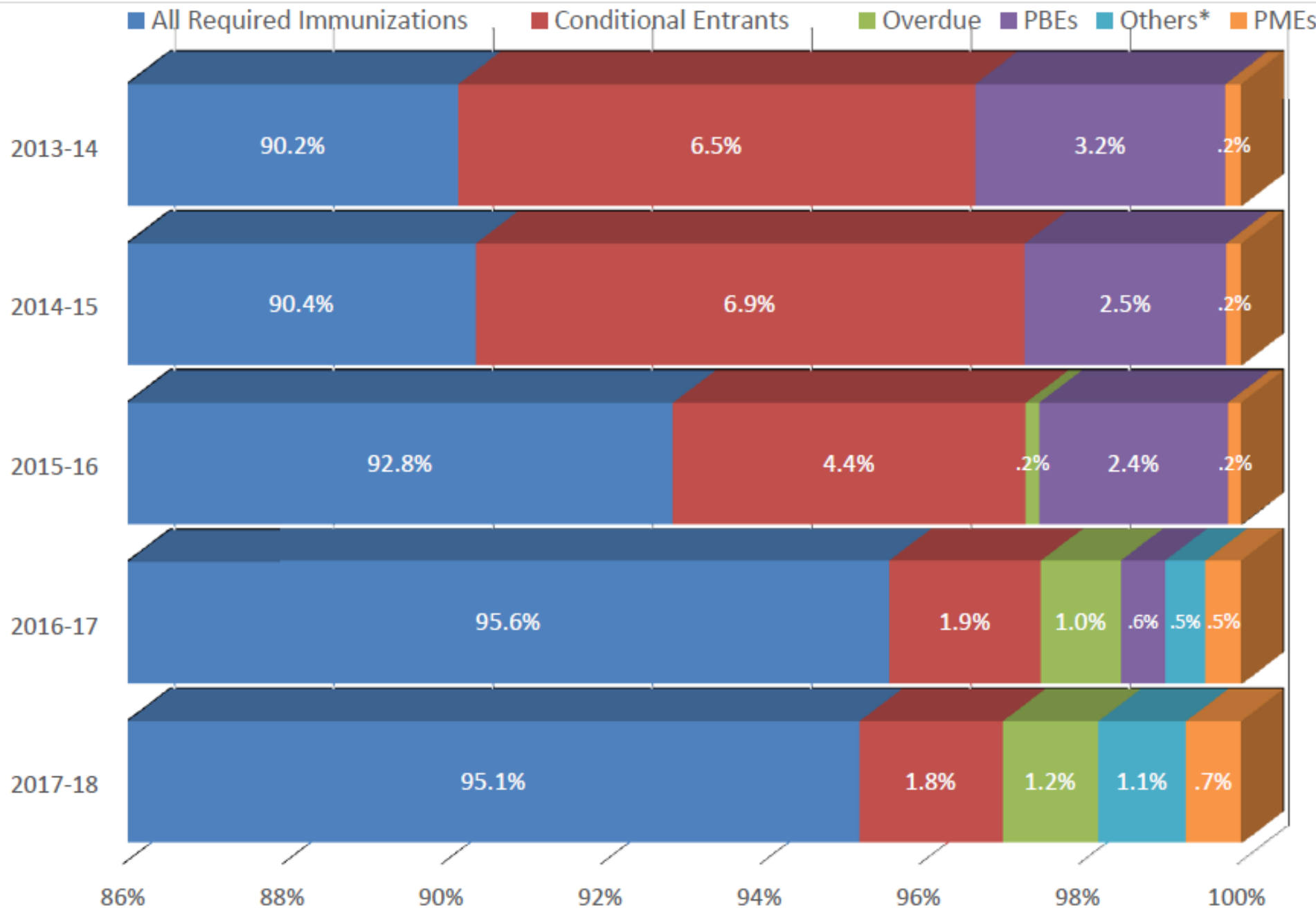


# San Diego measles outbreak @ 30% PBE school, 2008

## 12 cases, including hospitalized infant

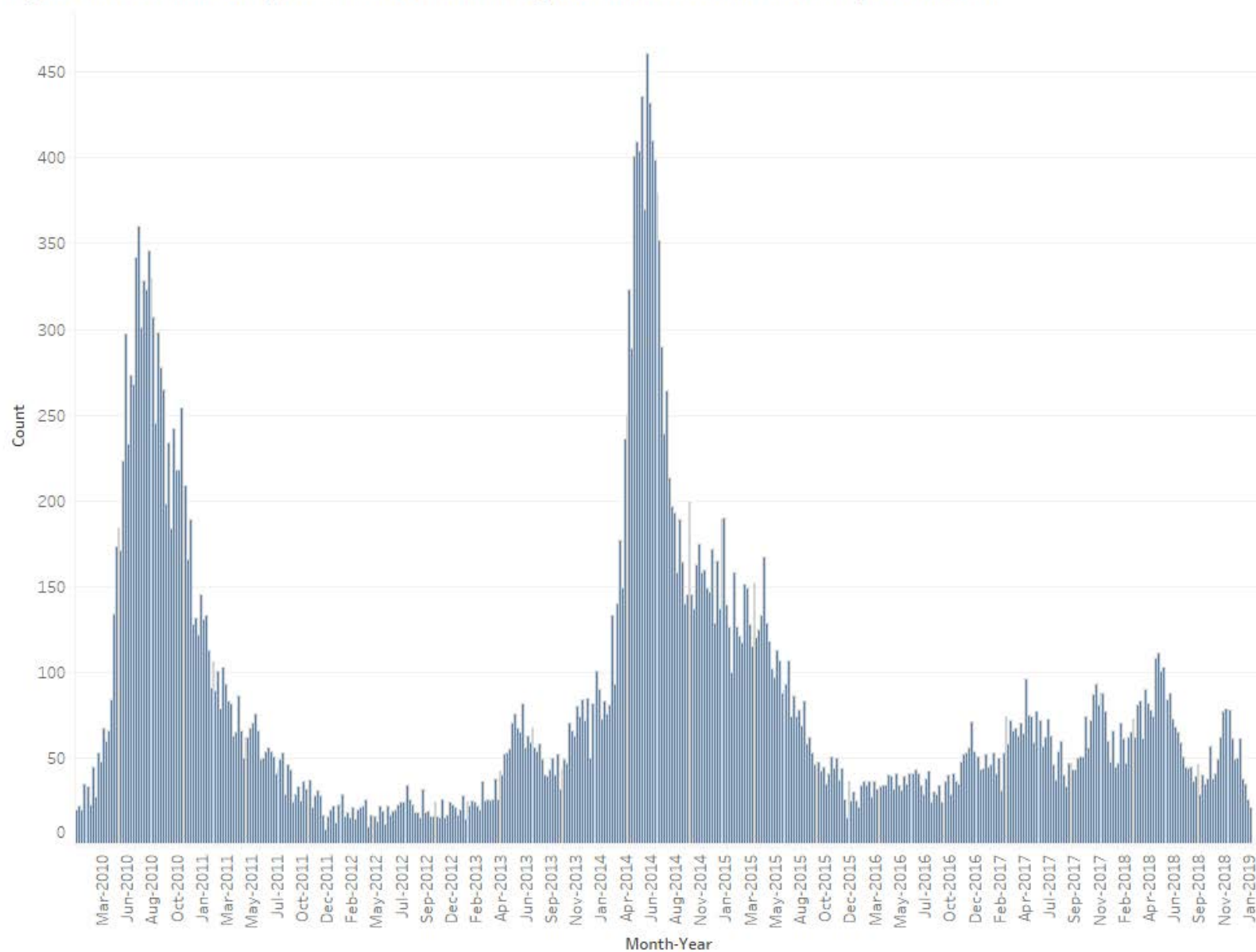




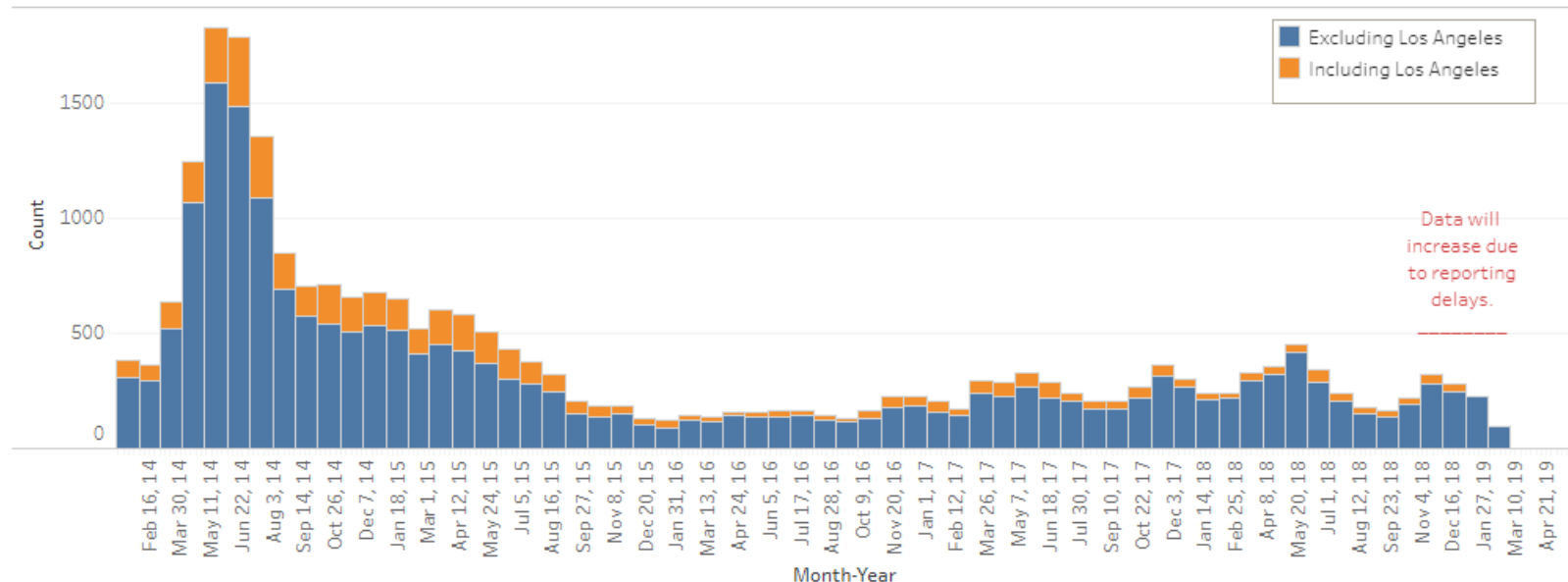


\*Other children lacking required immunizations under criteria specified in SB 277.

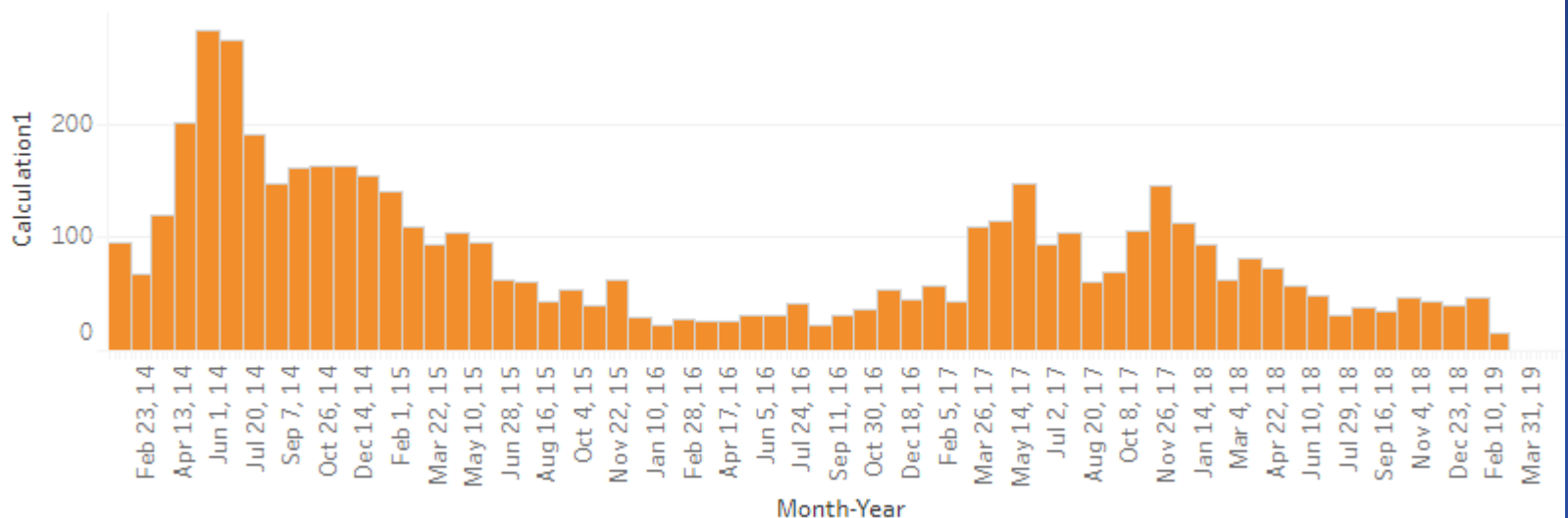
Figure 1. Year to date\* pertussis case counts by week of onset -- California, 2010-2018



Year to date\* pertussis cases by week of onset -- California, 2014-2019



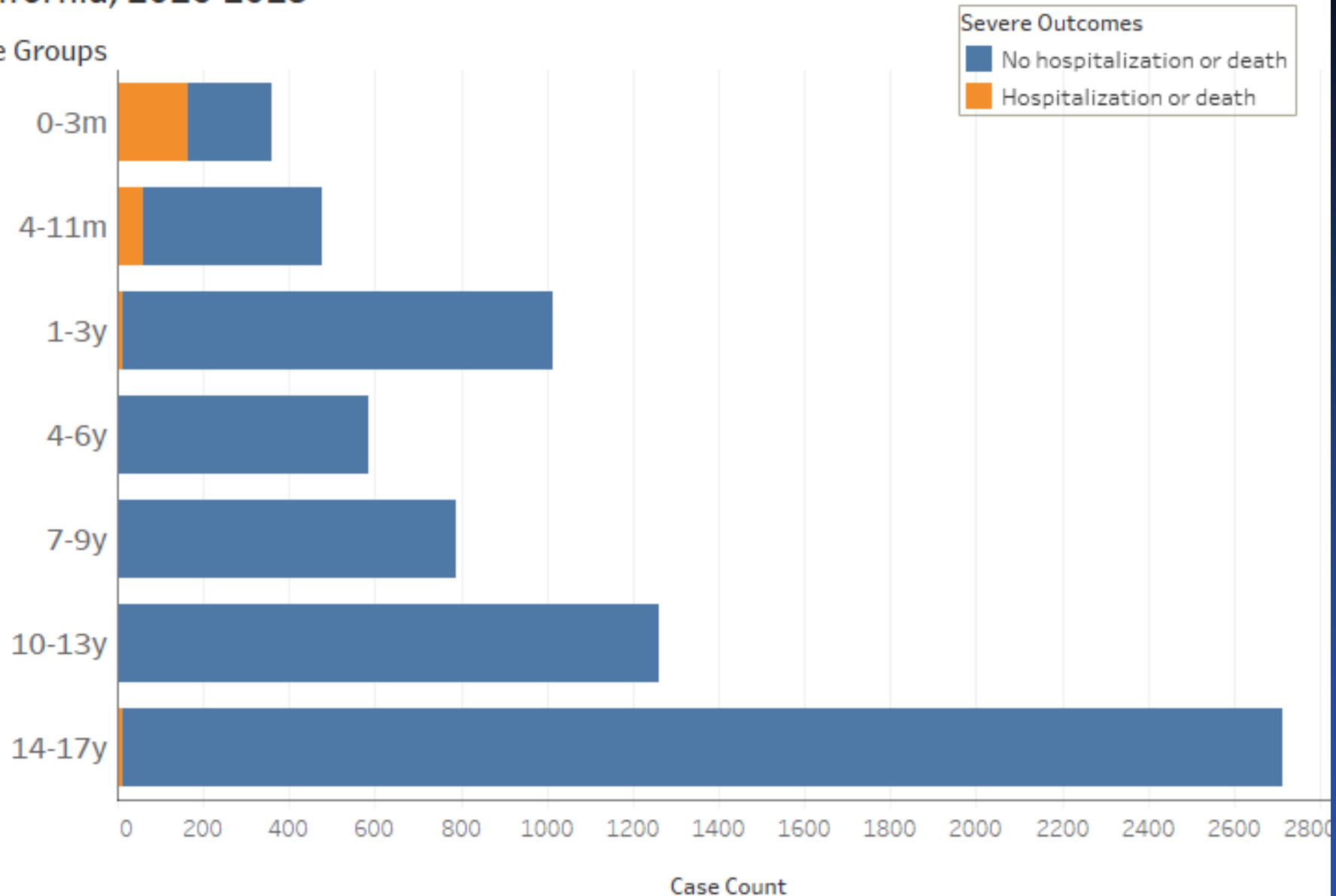
Pertussis cases by week of onset -- SAN DIEGO, 2014-2018



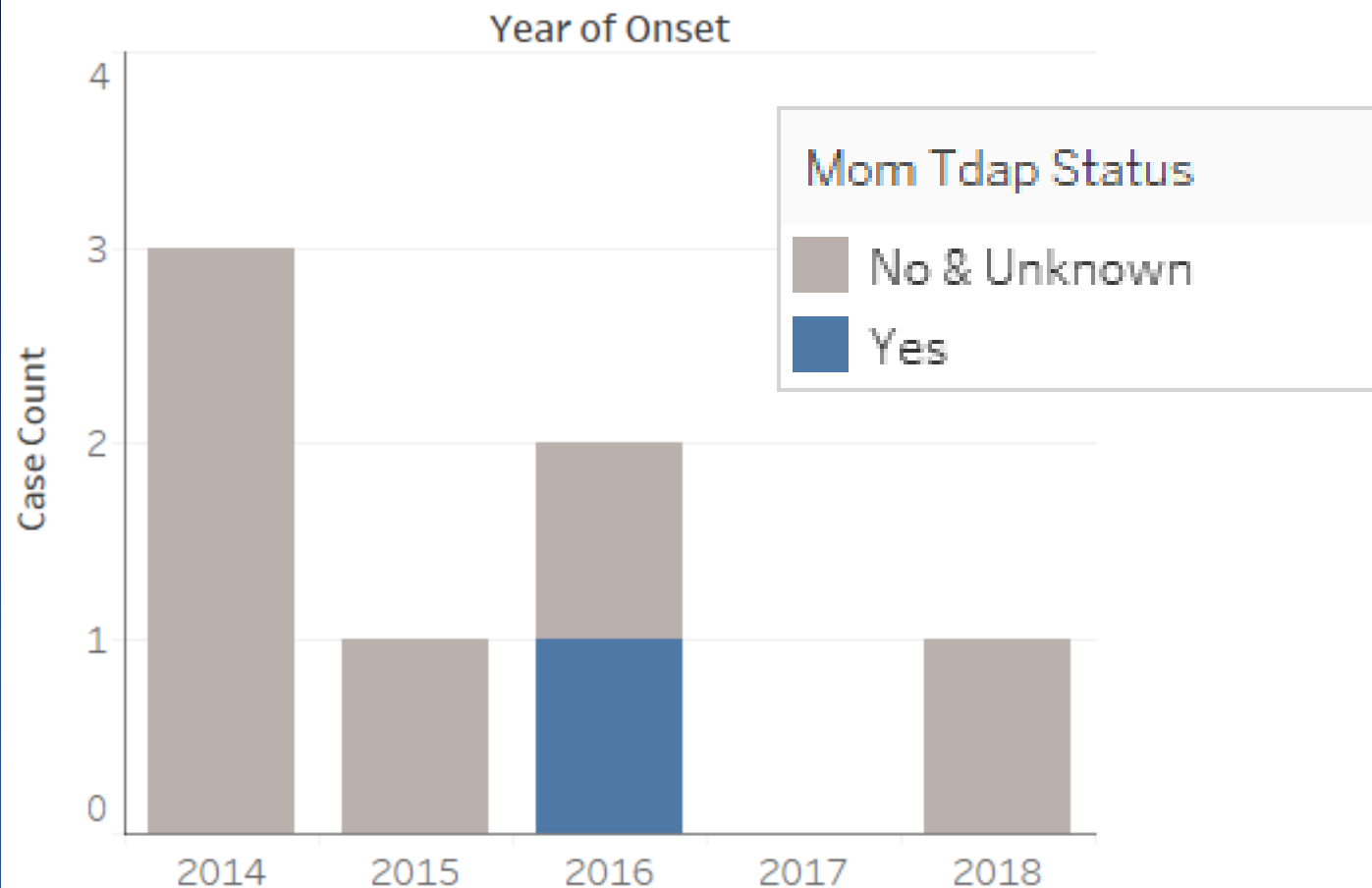


## Severe outcomes (hospitalizations or deaths) among pediatric pertussis cases -- California, 2016-2018

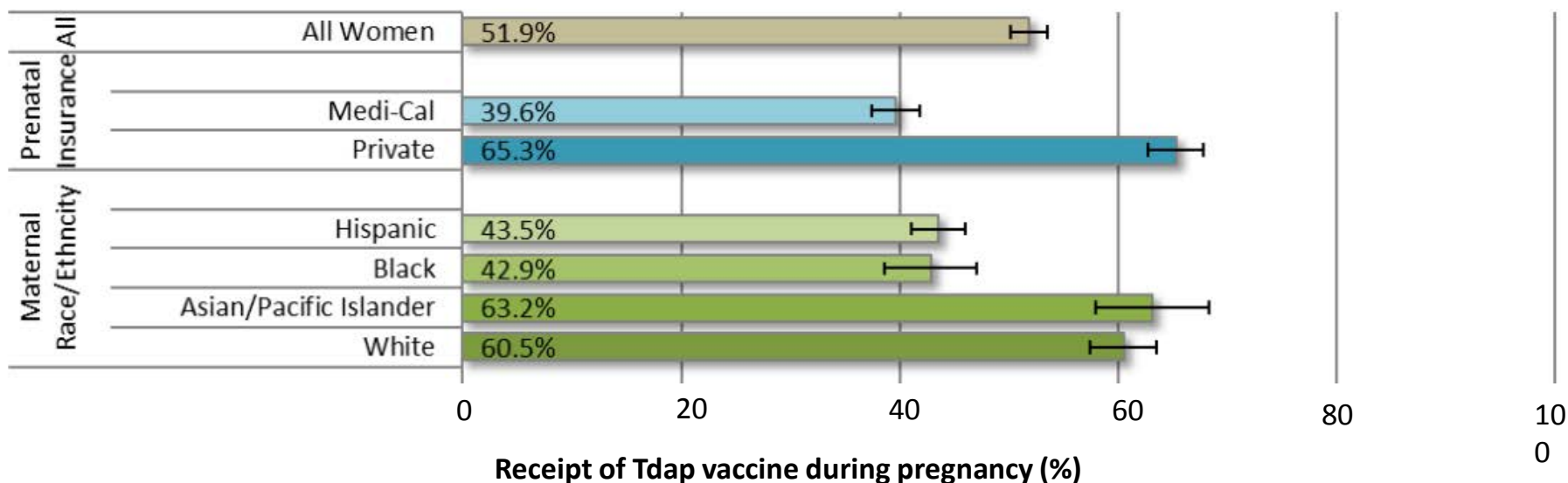
Age Groups



# Pertussis-related deaths among infants <4 months of age, California -- 2014-2018



# Tdap Coverage Estimates in California: Maternal and Infant Health Assessment, 2016\*



\*The Maternal and Infant Health Assessment (MIHA) is an annual population-based survey of postpartum women. Percentages are weighted to represent all women with a live birth in 2016 in California.

<https://www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/Immunization/MIHA-FactSheet2016.pdf>

# CDPH's Actions to Increase Prenatal Tdap

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- Supporting local health department efforts
  - investigations
  - prenatal Tdap working groups
- CDPH Genetic Disease Screening Program promoting Tdap and Flu messages in their tools – gestational wheels
- Working closely with WIC and Maternal, Child & Adolescent Health, ACOG

## CDPH's Actions to Increase Prenatal Tdap

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- Offering “starter kits” of Tdap doses to prenatal provider offices to stock Tdap and sustain the practice of immunizing on site
- Developed and disseminating patient materials
- Promoting use of 2019 HEDIS measure on prenatal Tdap and influenza immunization
- Promoting best practices in health plans
- Promoting prenatal immunization in pharmacies