



WASHINGTON MEASLES OUTBREAK

WA DOH Vaccine Advisory Committee meeting
April 18, 2019

Measles



- Caused by virus
- Symptoms: cough, coryza (runny nose), conjunctivitis (red eyes), fever, rash
- Incubation period: 7–21 days
- Contagious period: 4 days before to 4 days after onset of rash
- Airborne spread/highly contagious
- Complications:
 - 1 pneumonia per 20 cases
 - 1–2 deaths per 1000 cases

Immediate Disease Investigation

- Confirm the diagnosis
- Isolate the case-patient
- Identify potential source
- Identify exposed contacts
- Determine their immune status
- Manage contacts
- Enhance surveillance

HEALTH ALERT
Jan. 4, 2019

Confirmed measles case in Clark County



Summary

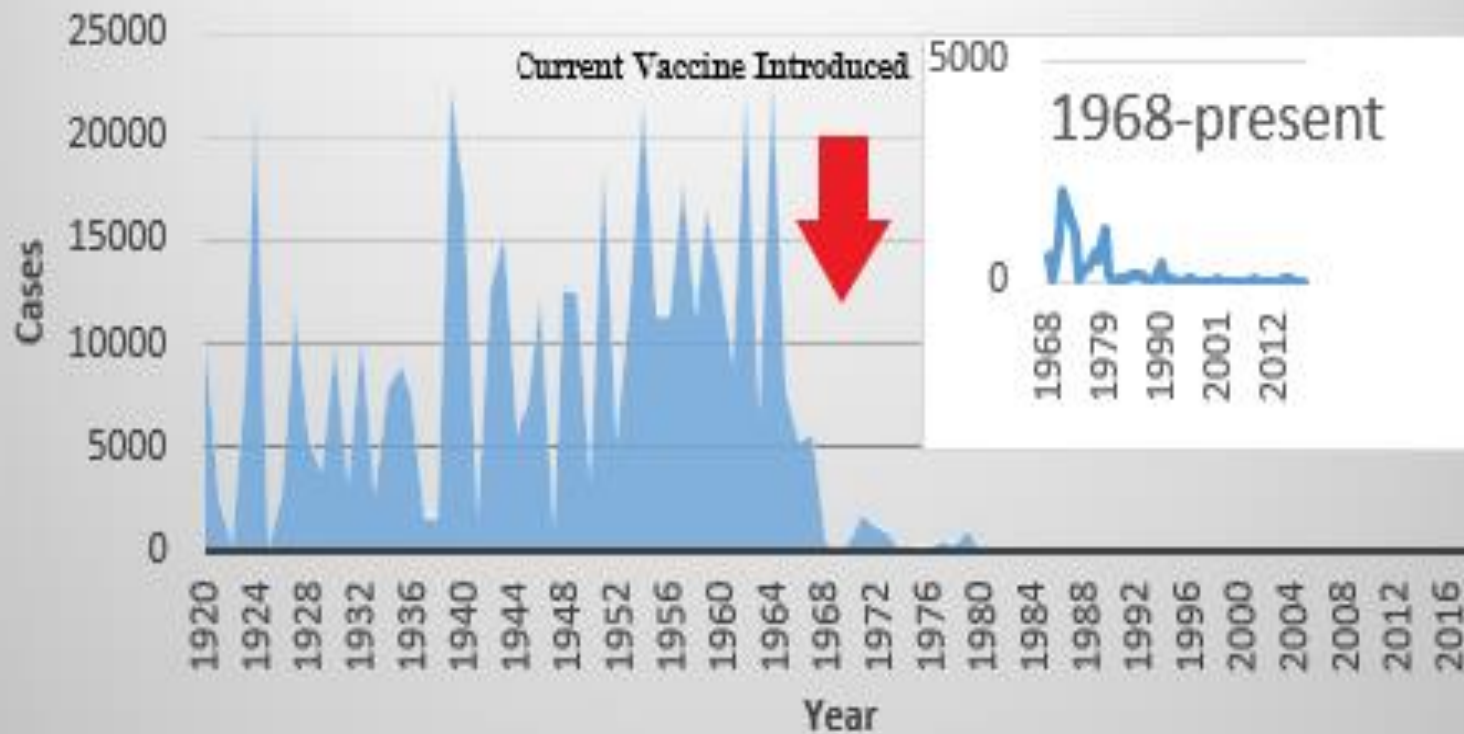
Clark County Public Health is investigating a confirmed case of measles in a child. The child, whose immunization status is unverified, traveled to Clark County from outside of the country in late December.

Public Health has identified one public exposure location:

- Clinic and waiting area at PeaceHealth Urgent Care – Memorial, 3400 Main St., Vancouver, from noon to 5:30 pm Monday, Dec. 31.

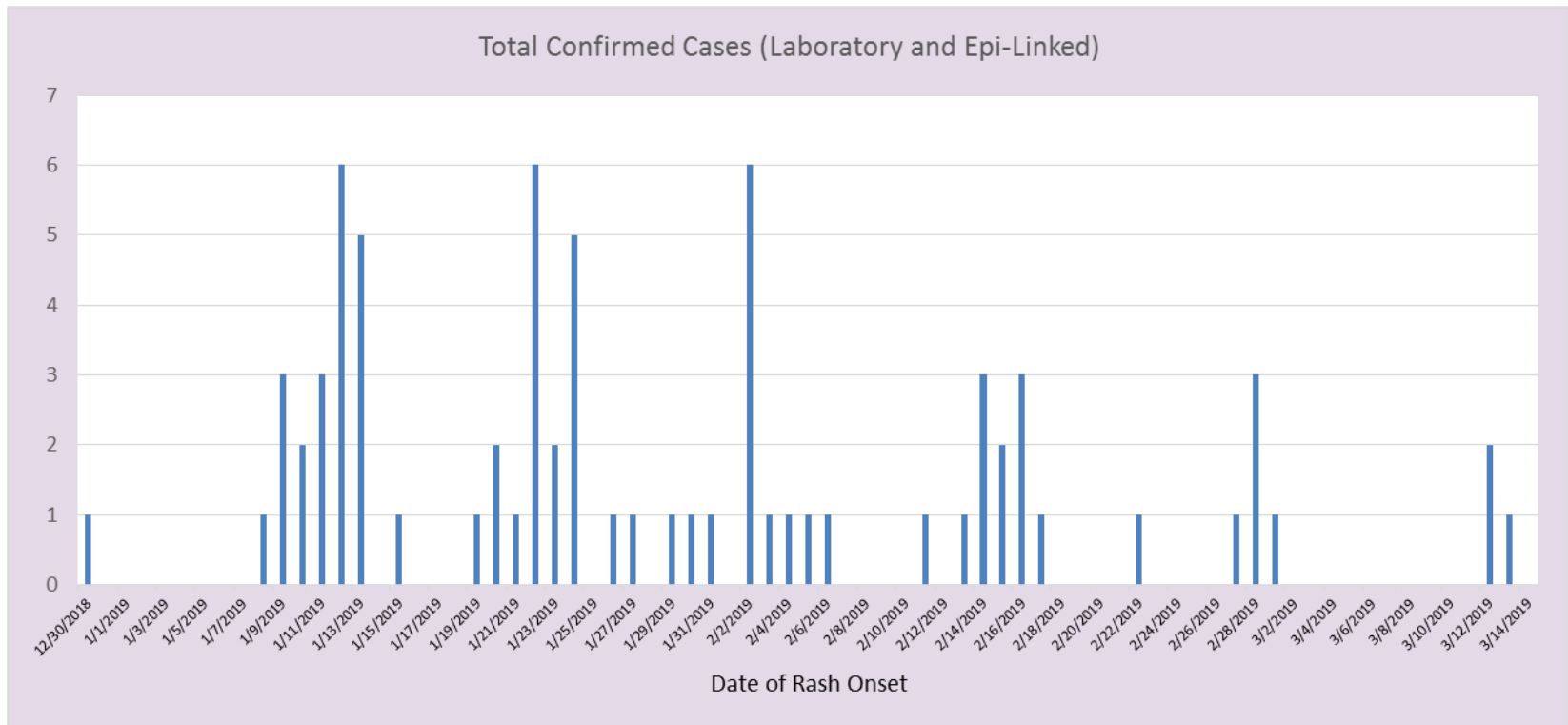
All possible contacts are being advised to watch for symptoms of measles and seek health care for diagnosis by calling ahead in order to avoid exposing others in waiting rooms and lobbies. Those who were exposed may develop symptoms between Jan. 7 and Jan. 21.

Washington State Measle Cases 1920-2018



WA State Measles Outbreak

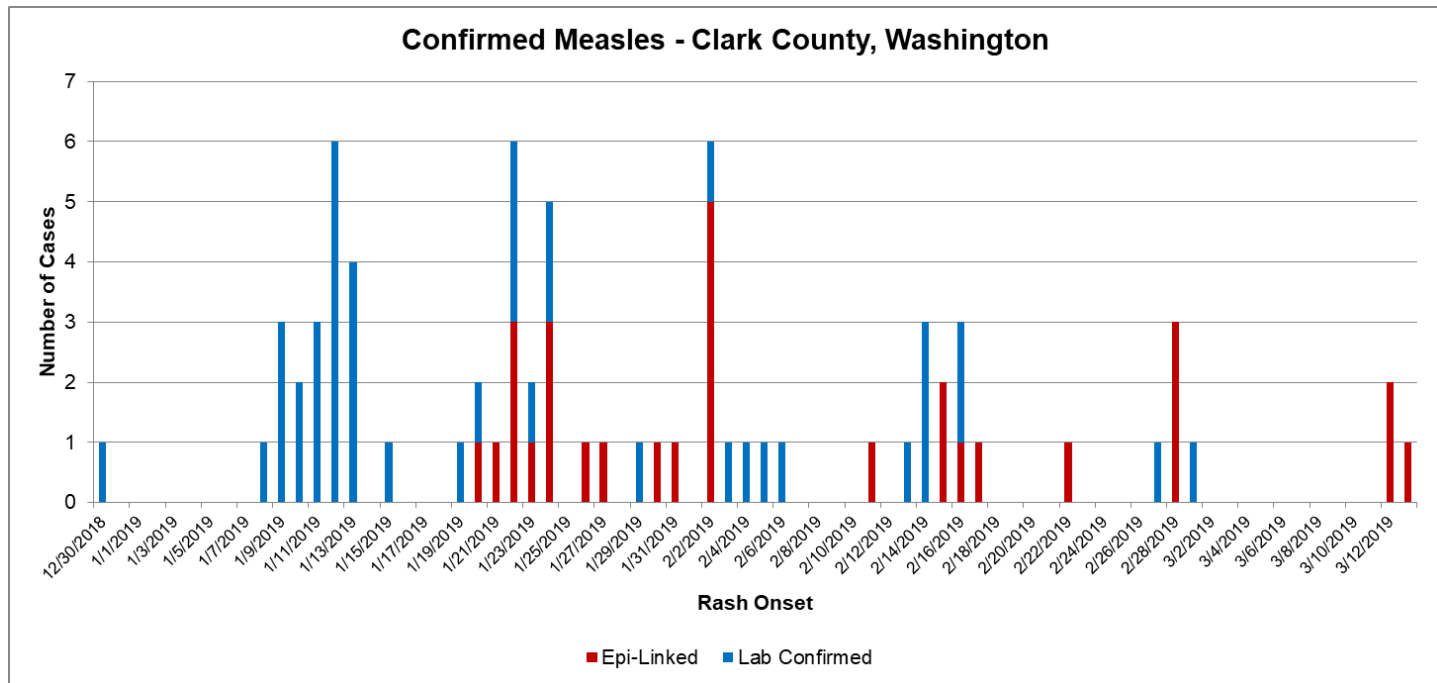
Rash onsets 12/30/2018 – 3/13/2019 N=74



Clark County Measles Outbreak 2019

Lab Confirmed and Epi-Linked Cases

Rash onsets December 30, 2018 through March 13, 2019



Washington State Measles Outbreak 2019

Case Attributes As of 3/18/2019 N=74

Age	Confirmed Cases
1-10 years	53
11-18 years	15
19-29 years	1
30-39 years	4
40-59 years	1
Immunization Status	Confirmed Cases
Unimmunized	63
1 MMR	3
Unverified	7
Hospitalization Status	Confirmed Cases
Hospitalized	2
Not Hospitalized	72
Confirmation Type	Confirmed Cases
Lab Confirmed	43
Epi-linked	30

2019 Measles Outbreak Timeline

January	4	Clark County Public Health (CCPH) announced one confirmed measles case in an unvaccinated child in Clark County
	14	Clark County Public Health activates emergency response to coordinate the local response
	15	Department of Health (DOH) activates the Incident Management Team to coordinate the statewide response
	18	Clark County declared a public health emergency for the measles outbreak
	25	Governor Inslee declared a state of emergency in response to the measles outbreak
	31	Washington DOH requested support from other states through the Emergency Management Assistance Compact (EMAC)
February	4	DOH registers its first state-level healthcare volunteer under the Emergency Volunteer Healthcare Practitioners Act, to support the measles response
	6	DOH formally requests a Tribal Liaison from AIHC to support the state Incident Management Team throughout the measles response

Intervention

- Department of Health (DOH) instituted department-wide Incident Management Structure
- DOH roles included:
 - Assistance with disease investigations
 - DOH led Epidemiology Strike Team deployed to Clark County
 - Public health nurses from Public Health – Seattle & King County and Pierce County Medical Reserve Corps provided surge capacity
 - Laboratory testing
 - Vaccine management
 - Risk communications
 - Policy engagement
 - Other efforts to protect communities



Governor Inslee visits emergency coordination center for measles outbreak

WA State Measles Investigation

Last Update: 03/04/2019 1500

	Clark County	Rest of WA State	TOTAL
Total Investigated Cases	148	119	267
<i>Confirmed cases</i>	70	1	71
<i>Current suspect cases</i>	1	6	7
<i>Cases ruled out prior to contact investigation initiated</i>	73	118	191

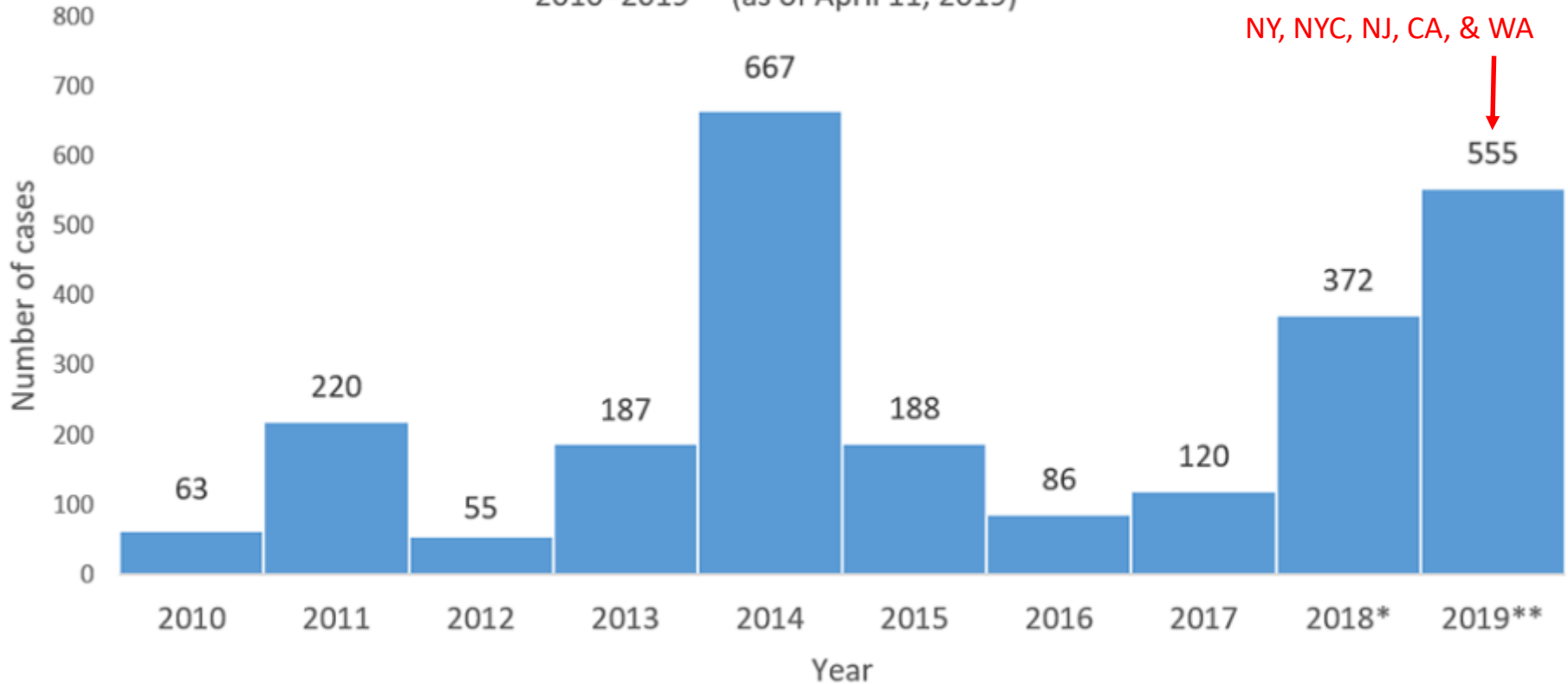
Total Contacts Identified	4514
<i>Reached for initial interview, via phone</i>	4030
<i>Unable to contact*</i>	484
<i>Transferred to outside jurisdiction</i>	211

Cost

- The state lab has tested at least 204 samples for measles and Oregon's lab has tested 28 samples from Washington residents.
- Nearly 89 Clark County Public Health staff and 170 Department of Health staff have worked more than 7,500 hours to control this preventable outbreak.
- Combined costs exceed \$1,600,000.

NUMBER OF MEASLES CASES REPORTED BY YEAR

2010–2019** (as of April 11, 2019)



*Cases as of December 29, 2018. Case count is preliminary and subject to change.

Cases as of April 11, 2019. Case count is preliminary and subject to change. **Data are updated every Monday.

Low Vaccination Rates, Global Outbreaks

- Disease outbreaks do not respect jurisdictional borders.
- People infected with measles in WA went to locations in Georgia, Hawaii, and Oregon.
- Measles virus from WA outbreak genetically matched to a wild strain of measles virus from Eastern Europe.
- There have been recent flare ups of measles in Eastern Europe and Israel.

VISITING ANOTHER COUNTRY? PROTECT YOUR FAMILY.
THINK MEASLES.
Measles is widespread in places like Europe, Africa, Asia, India, and the Philippines.



BEFORE YOU TRAVEL
Talk with 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.

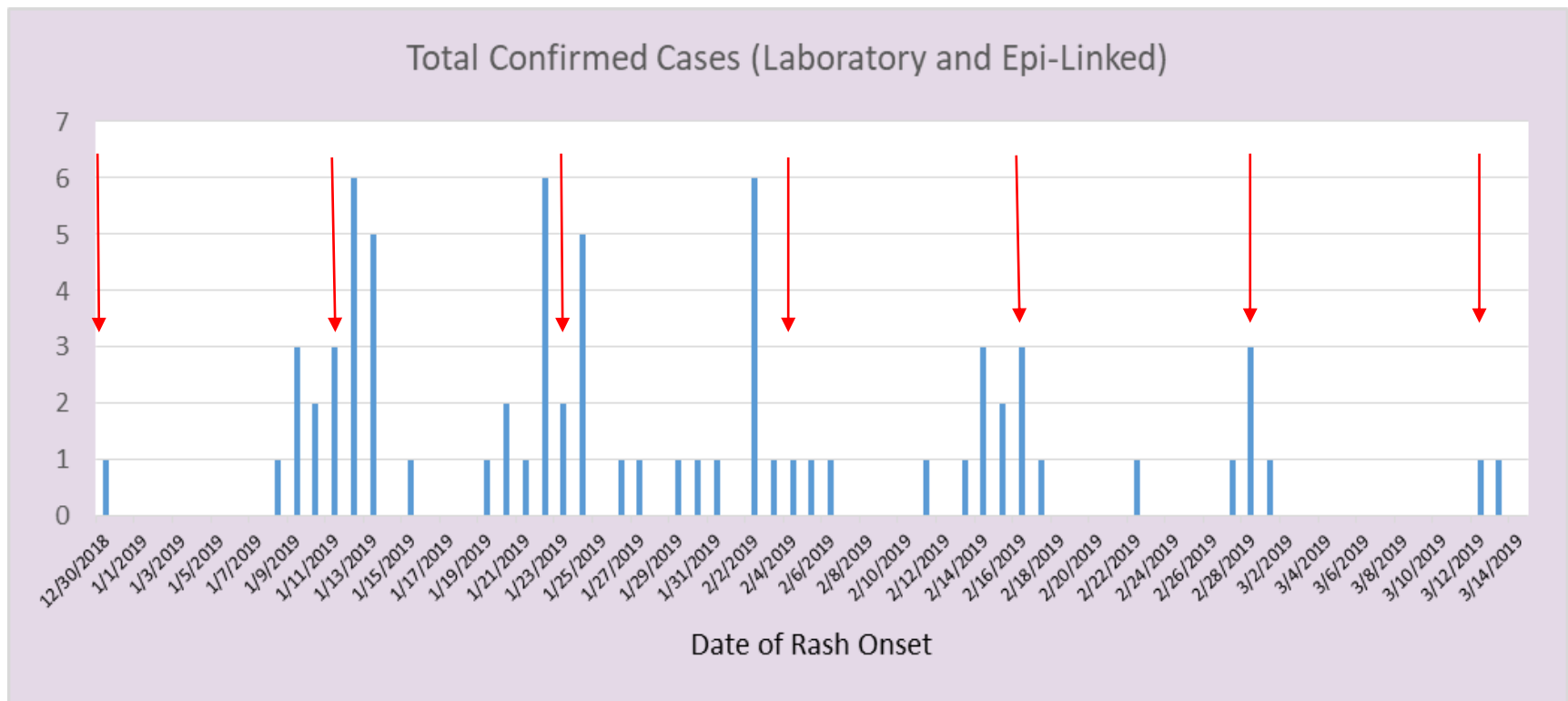
✂ Talk with your doctor if you are planning an international trip.
For more information go to www.cdc.gov/travel

California Department of Public Health, Immunization Branch 988-1949 (6/11)

Serial Transmission Intervals

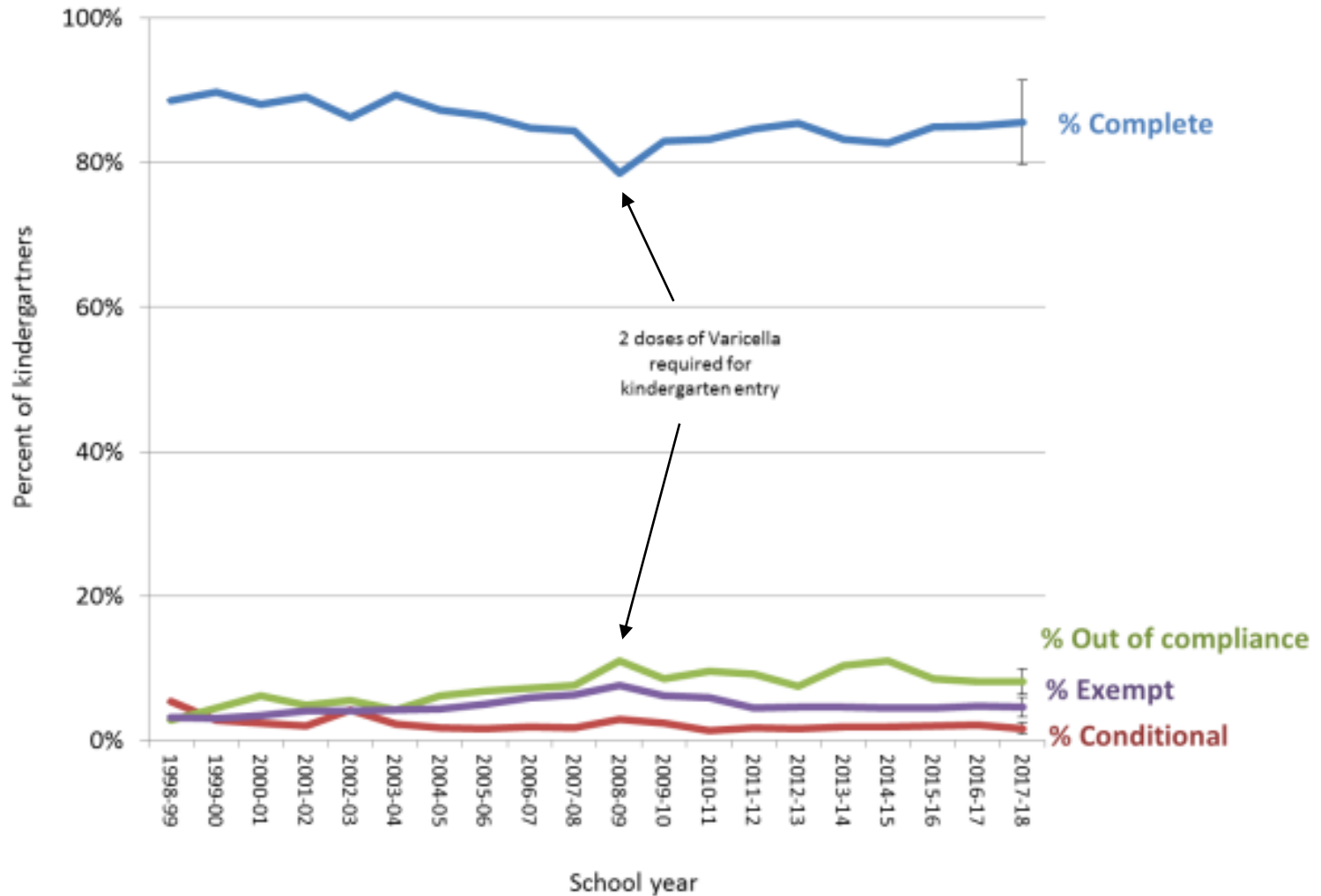
WA State Measles Outbreak 2019

Assuming Serial Transmission Interval of 12 days, next peak was due ~ 3/24:



Outbreak can be declared over when 2 full incubation periods (42 days) has passed since the date of rash onset in last known case: **April 25th** if no additional cases.

Immunization Status of Kindergartners in WA



Questions?



Washington State Department of Health is committed to providing customers with forms and publications in appropriate alternate formats. Requests can be made by calling 800-525-0127 or by email at civil.rights@doh.wa.gov. TTY users dial 711.