



Measles -- 2019

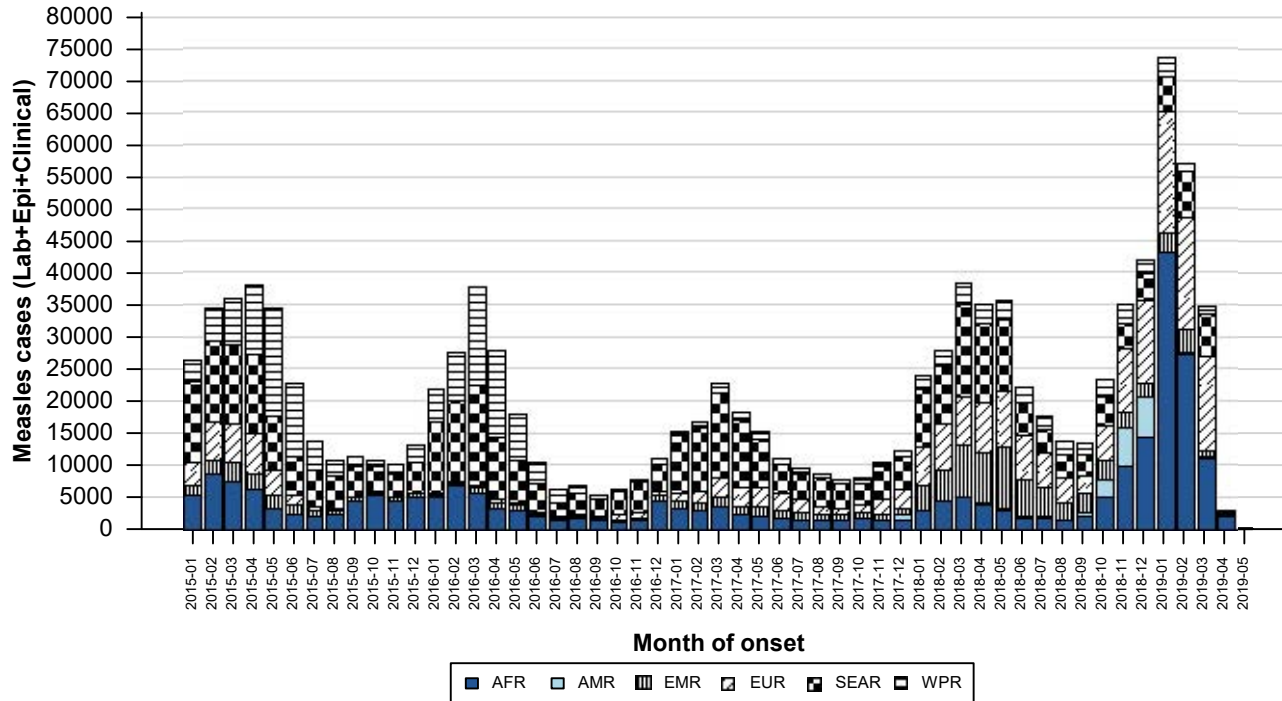
Melinda Wharton, MD, MPH
Director, Immunization Services Division
Centers for Disease Control and
Prevention

National Vaccine Advisory Committee
Washington, D.C.
June 4, 2019

Global Measles Update

Measles -- 2019

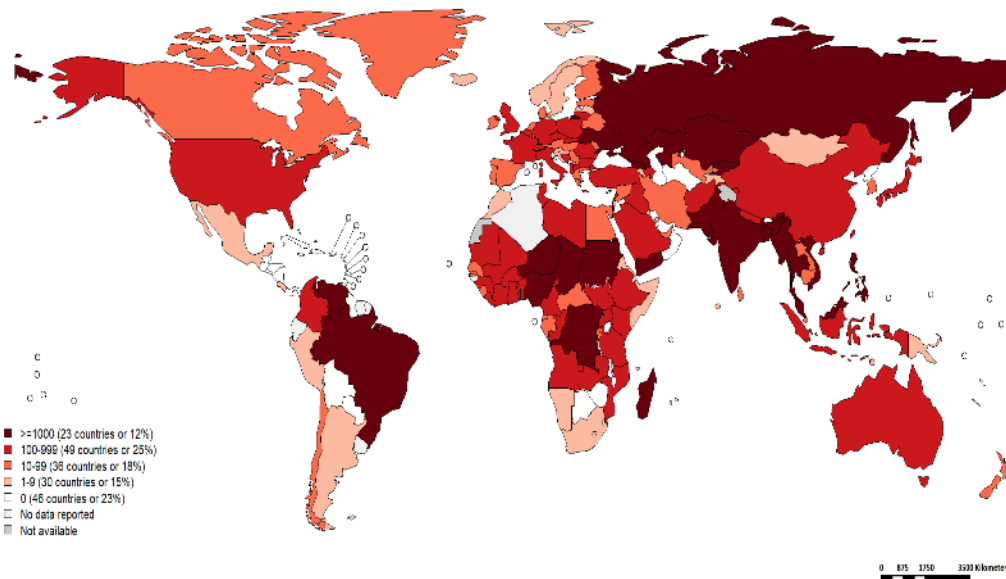
Measles case distribution by month and WHO Region (2015-2019)



Notes: Based on data received 2019-05 - Data Source: IVB Database - This is surveillance data, hence for the last month(s), the data may be incomplete.

Number of Reported Measles Cases (6M period)

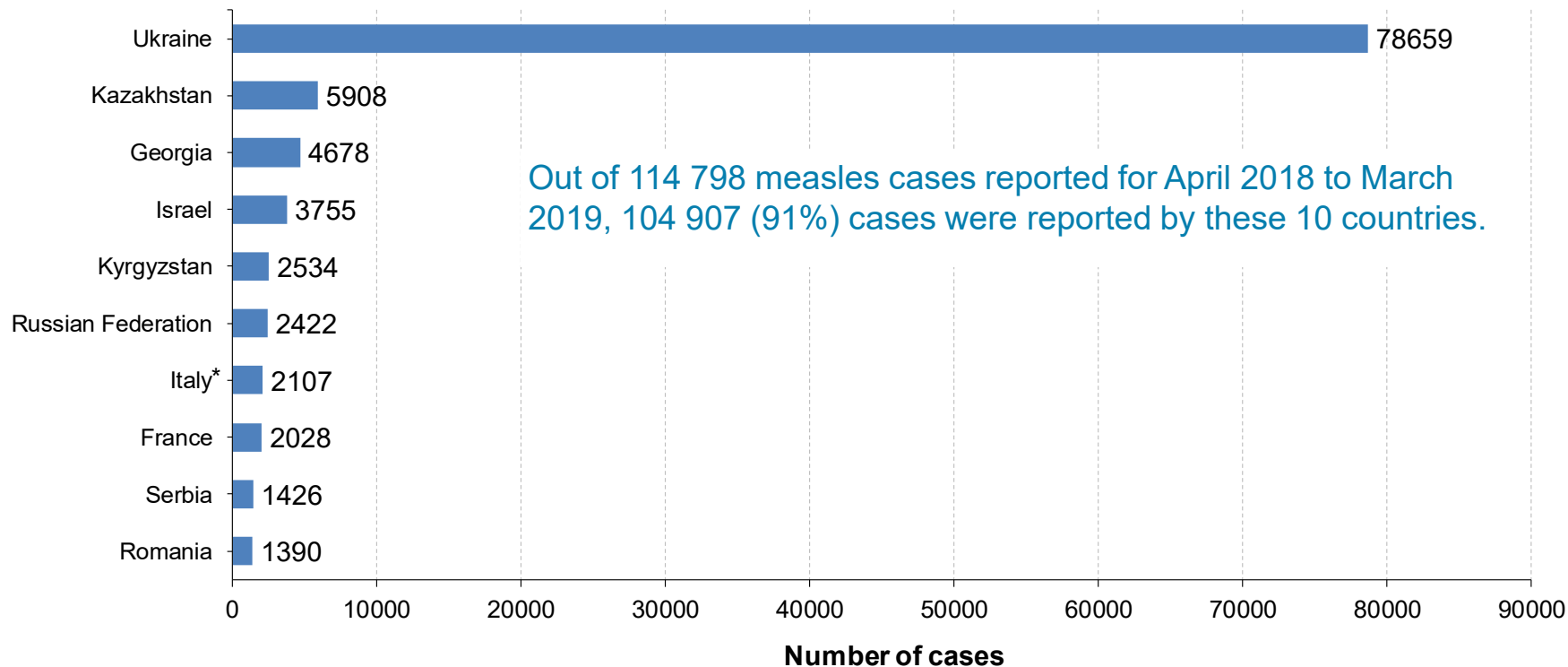
Top 10*	
Country	Cases
Madagascar	84765
Ukraine	56094
India**	19544
Nigeria	10610
Brazil	8663
Philippines	7518
Yemen	6779
Kazakhstan	5902
Thailand	5784
Venezuela (Bolivarian Republic of)	5668



Disclaimer:

The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

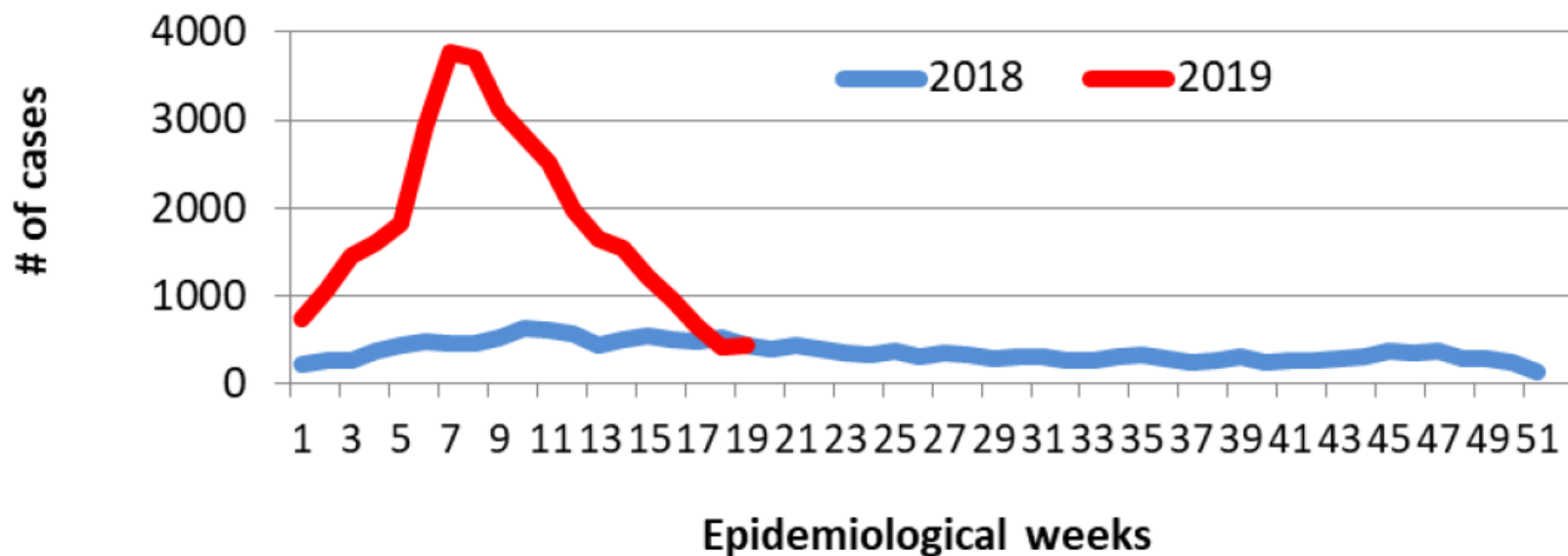
Ten countries with the highest numbers of measles cases in the WHO European Region, April 2018–March 2019



*Based on data from April 2018 to February 2019

Figure 1. Measles Cases by Week of Rash Onset

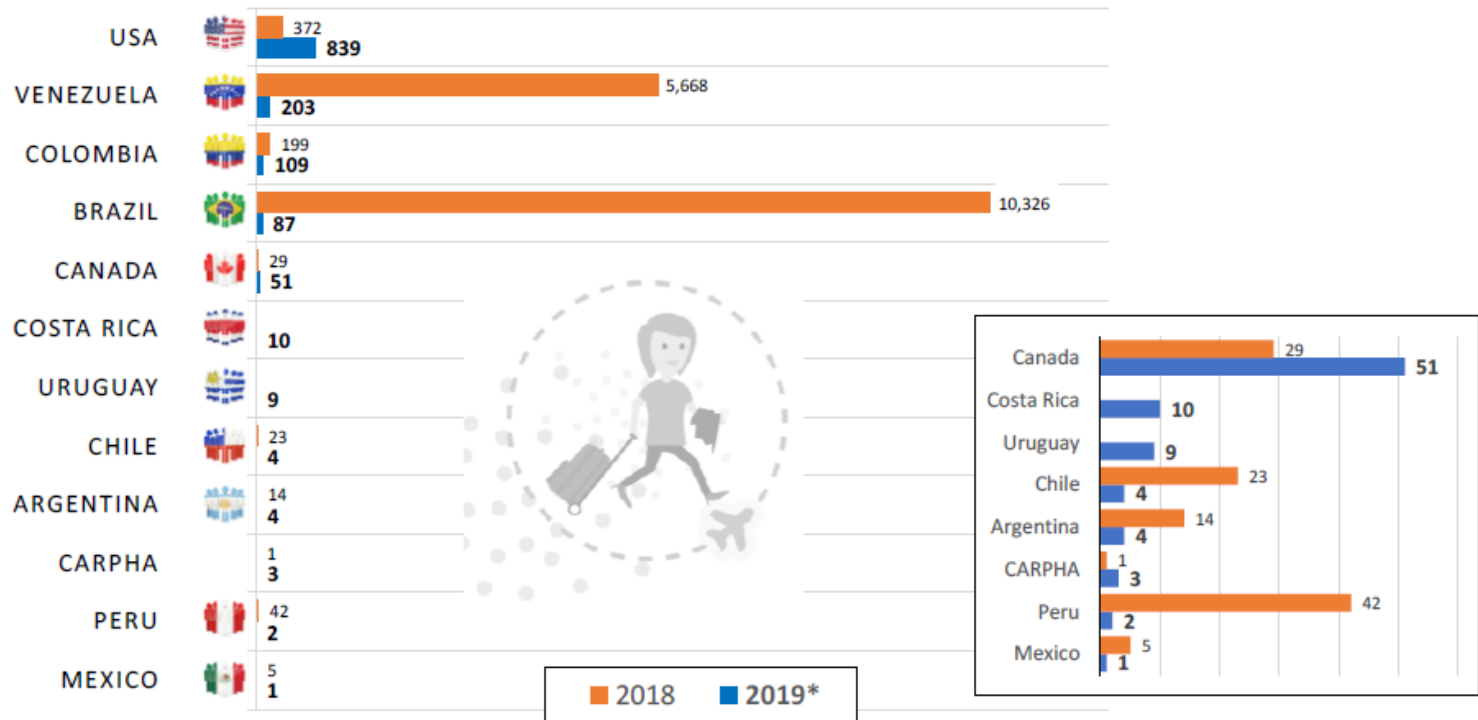
1 January 2018-11 May 2019



Source: Philippines Department of Health Measles-Rubella Surveillance Reports 2019

Countries with reported measles cases in The Americas

Distribution of confirmed cases by country, 2019*



* Data for 2018 is from 1 January to 31 December. Data from 2019 is from 1 January to 17 May.
Source: Weekly country reports to PAHO

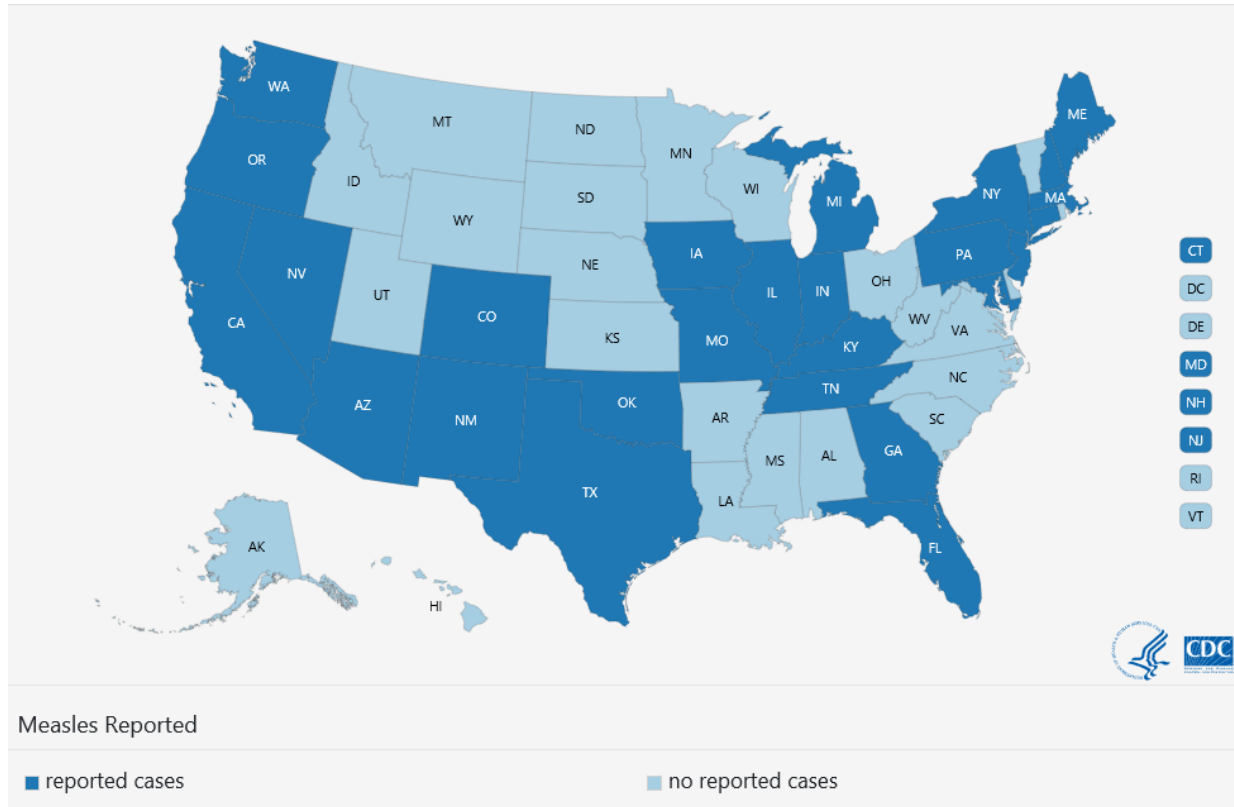
Measles – United States, 2019

Measles -- 2019

2019 US measles outbreaks

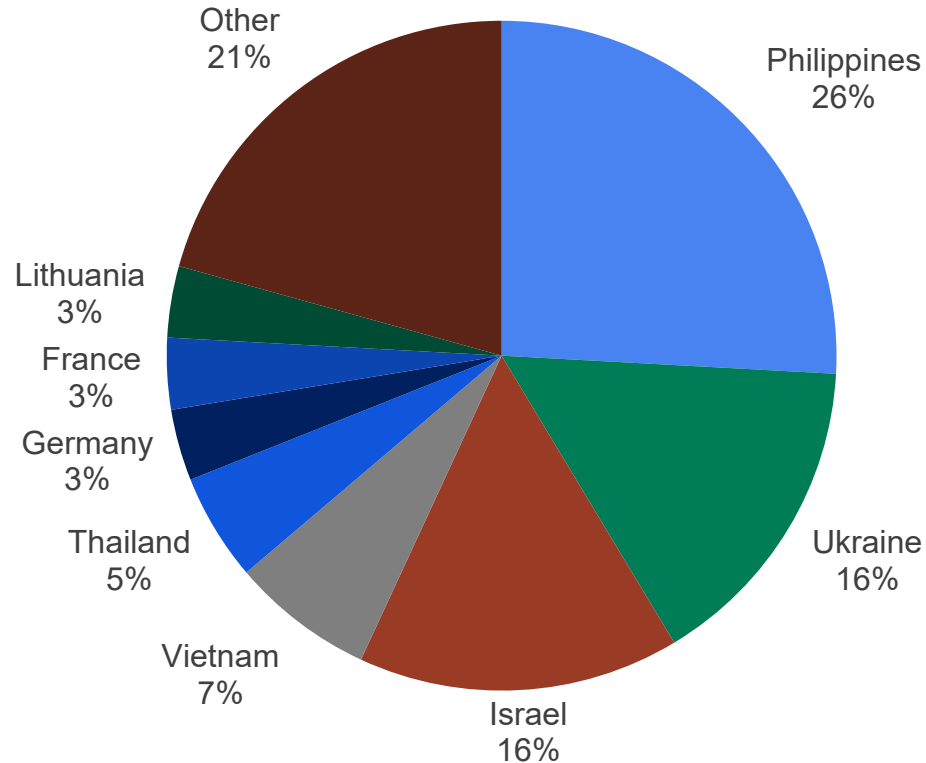
- From January 1 to May 24, 2019, **981** people from **26** states have been reported as having measles cases (increase of 41 cases from May 24th)
 - Greatest number of cases reported in the U.S. since 1992 and since measles was declared eliminated in 2000
- Measles outbreaks (3 or more linked cases) currently ongoing in:
 - New York (since 2018): Rockland County, New York City
 - California: Butte County, Los Angeles County, Sacramento County
 - Michigan
 - Georgia
 - Maryland
 - Pennsylvania
 - Washington

States that Have Reported Measles Cases in 2019



January 1-May 31, 2019

Source Countries for International Importations (n=58) –United States, January 1-May 31, 2019*



*Data are preliminary as of May 31, 2019. Percentages are of all 58 international importations.

What CDC is doing to address the outbreak

- Implemented an Incident Management Structure (IMS) within the National Center for Immunization and Respiratory Diseases (NCIRD)
- Investing in state and local health departments for public health infrastructure and laboratory capacity to support front-line response to suspected and confirmed measles cases
- Providing rapid assistance on the ground during outbreak investigations, through a formal request by the state health department
- Epidemiology:
 - Gathering data reported by states on confirmed measles cases and evaluating and monitoring these data from a national perspective

What CDC is doing to address the outbreak

- Communications:
 - Communicating with public health officials from states with reported measles cases and providing technical assistance
 - Developed a toolkit with resources for physicians about measles and vaccines
 - Doing outreach to rabbinical, camp, and medical associations to help spread clear, consistent, and credible vaccine information through trusted sources
- Laboratory:
 - Testing specimens for difficult diagnostic cases of suspected measles infection when requested by states
 - Using Advanced Molecular Detection (AMD) methods to determine measles virus genotypes and strains

Driver #1
Access to
Vaccines

Strategy: Dismantle Barriers to Access

- Minimize vaccine costs to patients
- Connect parents with health care providers
- Find new opportunities to vaccinate and minimize missed chances

Driver #2
Pockets of
Low
Vaccination

Strategy: Identify, Reach, and Assist Communities at Risk

- Leverage data to identify pockets of low vaccination *before* an outbreak occurs
- Work with health partners and providers to reach groups at risk
- Create tailored, effective, and empathetic materials and approaches to improve MMR vaccination among at-risk communities

Driver #3
Bad
Information

**Strategy: Immunize Against Bad Information with
Accurate, Persuasive Communications**

- Contain and counter false safety and efficacy claims
- Partner with health agencies, providers, and other stakeholders to educate the public and policy makers
- Empower health care providers to make a positive case for vaccines

For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.





State Response to the Current Measles Outbreak

Kim Martin, Director, Immunization Policy

National Vaccine Advisory Committee (NVAC) Meeting, June 2019

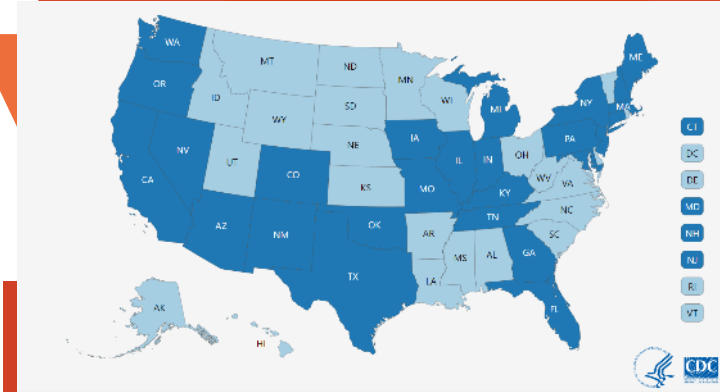
The Association of State and Territorial Health Officials (ASTHO)

- The Association of State and Territorial Health Officials (ASTHO) is the national nonprofit organization representing the state and territorial public health agencies of the United States, the U.S. Territories, and the District of Columbia. ASTHO's members, the chief health officials of these jurisdictions, are dedicated to formulating and influencing sound public health policy, and to assuring excellence in state-based public health practice.
- Strategic priorities:
 - Improve Public Health Through Capacity Building, Technical Assistance and Thought Leadership
 - Advocate for Resources and Policies that Improve the Public's Health and Well-being
 - Develop Strong and Effective State and Territorial Health Officials



Measles State Response Activities

- Enhance surveillance
- Utilize Incident Command System (ICS) and Emergency Management Assistance Compact (EMAC)
- Inform the public of the outbreak and locations where exposures may have occurred
- Educate patients and their contacts about the mode of transmission
- Implement control activities to limit virus transmission
 - Provide measles vaccine clinics
 - Assess immunity of contacts of cases
 - Implement isolation and quarantine
- Analyze the outbreak to determine if there is evidence of population immunity gaps that require public health action



CDC, as of May 24, 2019

Media Response

- ASTHO held two media desk side briefings
- Many of our members held multiple press interviews and wrote Op-Ed pieces on the importance and benefits of immunizations which was covered in such national media outlets as *NBC*, *Fox*, *CNN*, *US News and World Report*, *USA Today*, *The Hill*, *WIRED*, *Stat*, *Governing*, and the *Washington Post*
- John Wiesman (SHO-WA), ASTHO Immediate Past President, [testified](#) before the Senate HELP Committee

ASTHO Experts BLOG

Recent Items

A Partnership of State Approaches to CHW Training

Emerging Trends in State Legislative Legislation

Measles Spotlight: Abstracts

Recent State Legislative Activity to Ensure Mental Health Equity

Measuring Progress in the Healthcare: A Snapshot of State Initiatives

Measuring Progress in the Healthcare: A Snapshot of State Initiatives

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States Move to Eliminate Non-Medical Exemptions for Vaccinations

February 23, 2019 | 12:16 p.m. | ASTHO Staff

According to CDC, by mid-February of 2019, 127 cases of measles were confirmed in 19 states (California, Colorado, Connecticut, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).

ASTHO Experts BLOG

Recent Items

Measles Outbreak in the Healthcare: A Snapshot of State Initiatives

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Measles Outbreaks and School Exclusions: Public Health's Authority to Protect Children and Stop the Spread of Disease

February 07, 2019 | 1:12 p.m. | ASTHO Staff

As they work to improve the health of tomorrow, today's public health officials

PRESS ROOM

Current Measles Outbreaks Should Alarm Every American and Highlight the Critical Importance of Vaccination Programs

ANLING FLOW, VA (Mar 5, 2019) - John Wiesman, DPH, MPH, secretary of health at the Washington State Department of Health, and immediate past

Health Officials Alarmed By Declining U.S. Vaccination Rates, Country Could Face Scenario Like Europe's Measles Outbreak



NEWS PROVIDED BY Association of State and Territorial Health Officials → Oct 25, 2018, 15:46 ET

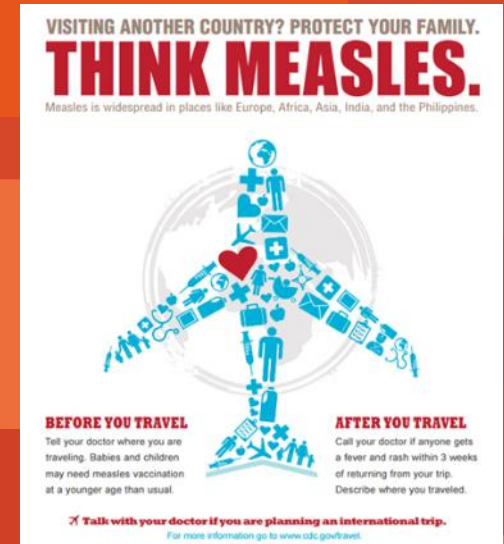
SHARE THIS ARTICLE



ANLING FLOW, Va., Oct 25, 2018 /PRNewswire/ -- The Association of State and Territorial Health Officials (ASTHO) is concerned about the latest measles outbreak

State Challenges during the Current Outbreak

- Expensive
- State health agencies may have to pull resources from other programs to assist with the outbreak
- Vaccine misinformation is hard to counter
- Cases or contacts may not follow isolation and quarantine instructions



CDC

Long Term State Activities to Increase Vaccination Coverage

- **Expanding Access to Vaccinations**

- Increasing scope of practice for additional providers (e.g., pharmacists)

- **Expanding Outreach**

- Providing education to the public to address misinformation or vaccine hesitancy
- Providing messaging to providers about how to address misinformation and make strong vaccination recommendations

Pharmacists can administer MMR vaccine in all but 3 states/cities (DC, NY and WV)

Pharmacists may need a protocol, prescription or both to administer vaccines

In 19 states, pharmacists are not able to administer MMR to persons under 18 years old and in 17 states there is not an age restriction

Vaccine Exemptions

- **Exemption Legislation:**

- ✓ Washington removed philosophical exemption for MMR
- ✓ Maine eliminated all non-medical exemptions becoming the fourth state without such exemptions
- Many other states are also considering bills to eliminate non-medical exemptions to school vaccination requirements, including Arizona ([HB 2162](#)), Iowa ([HF 206](#)), Minnesota ([SF 1520](#)), New Jersey ([A 3818](#) and [S 2173](#)), New York ([S 2994](#) and [A 2371](#)), Vermont ([H 238](#)) and Oregon ([HB 3063](#)) (passed by Oregon House)

As of May 2019, over 900 individual cases of measles have been confirmed in 26 states

Every state and Washington, D.C. have vaccination requirements for children who are starting school and allow medical exemptions

As of 2019, all but four states – California, Mississippi, Maine and West Virginia – allowed for non-medical exemptions

Working to Address Misinformation

- States are focused on close-knit communities where there is vaccine misinformation
- In some cases, misinformation has gone out to these communities for many years and even generations
- Doing more of what has been done will likely not address the problem, but the struggle is trying to determine what will be effective in changing the misinformation that has already gone out
- State health agencies are interested in a proactive approach that is national, but customizable and implemented locally
- Efforts will need to be coordinated and trust will need to be built in these communities



Looking towards the Future

- **ASTHO is:**

- Organizing leadership from NACCHO, ASTHO and AIM to provide input and feedback on implementation of the CDC/HHS strategy to combat vaccine hesitancy
- Planning to develop a measles podcast
- Developing an infographic to demonstrate the cost of an outbreak
- Considering updating the [Communicating Effectively about Vaccines](#) toolkit from 2012
- Participating in next month's National Press Foundation Fellowship Program on Current Measles Issues
- Supporting passage of the VACCINES Act of 2019 (H.R. 2862)



Communicating Effectively About Vaccines:

New Communication Resources for Health Officials











Measles Outbreaks: Where Do We Go From Here?

Michelle Cantu, MPH
Director, Infectious Disease & Immunization

NACCHO
National Association of County & City Health Officials

Outline

-  Introduction to NACCHO
-  The Important Role of Local Health Departments in the Response
-  NACCHO Activities During the Measles Outbreak
-  NACCHO's Next Steps & Recommendations

Mission













NACCHO is comprised of nearly **3,000** **local health departments** across the United States. Our mission is to serve as a **leader, partner, catalyst**, and **voice** with local health departments.

There's value in belonging



Learn more by viewing a short video available on our website.

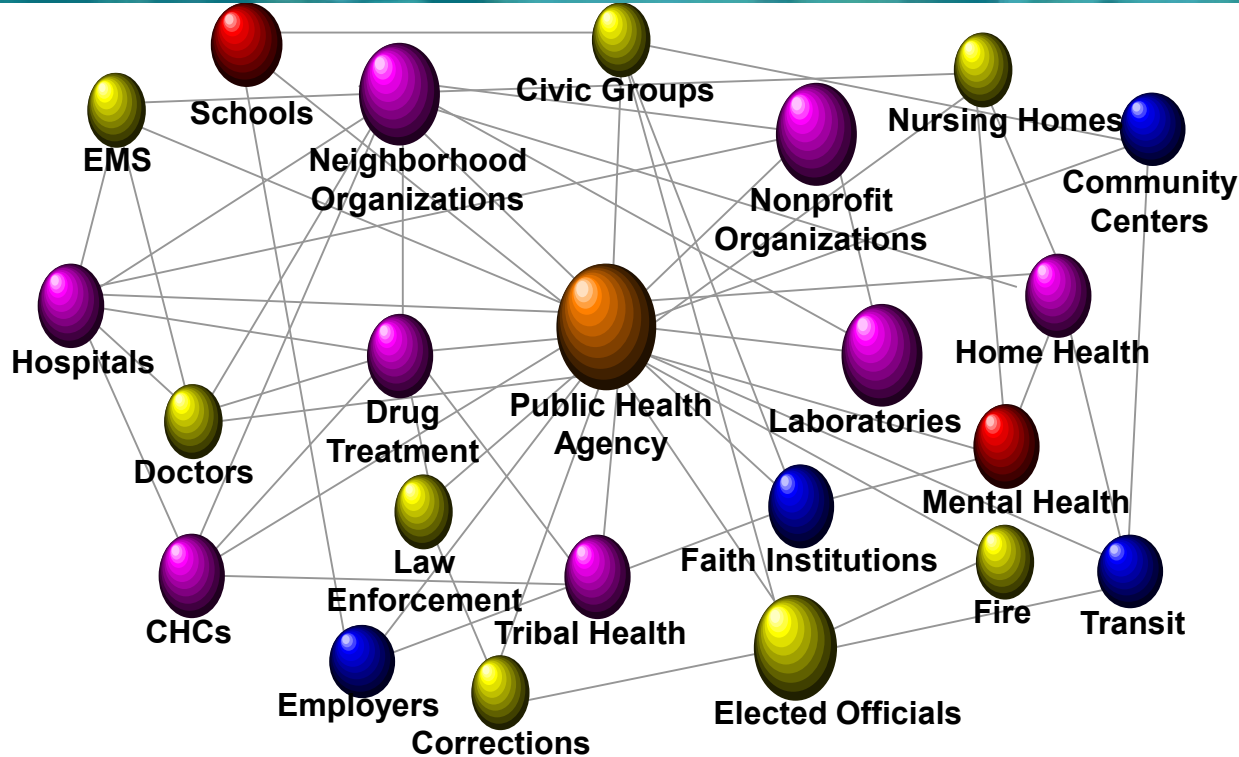
Our Work

-   Advocacy
-   Partnerships
-   Funding
-   Training and education
-   Networking
-   Resources, tools, and technical assistance



The Important Role of Local Health Department Immunization Programs

Public Health System



2016 National Profile of Local Health Departments (LHDs)

Clinical programs and services provided directly in the past year

Program/service	% LHDs
Immunization	
Adult immunizations	90%
Childhood immunizations	88%
Screening for diseases/conditions	
Tuberculosis	84%
Other STDs	65%
HIV/AIDS	62%
Blood lead	61%
High blood pressure	54%
Body Mass Index (BMI)	53%
Diabetes	34%
Cancer	32%
Cardiovascular disease	25%

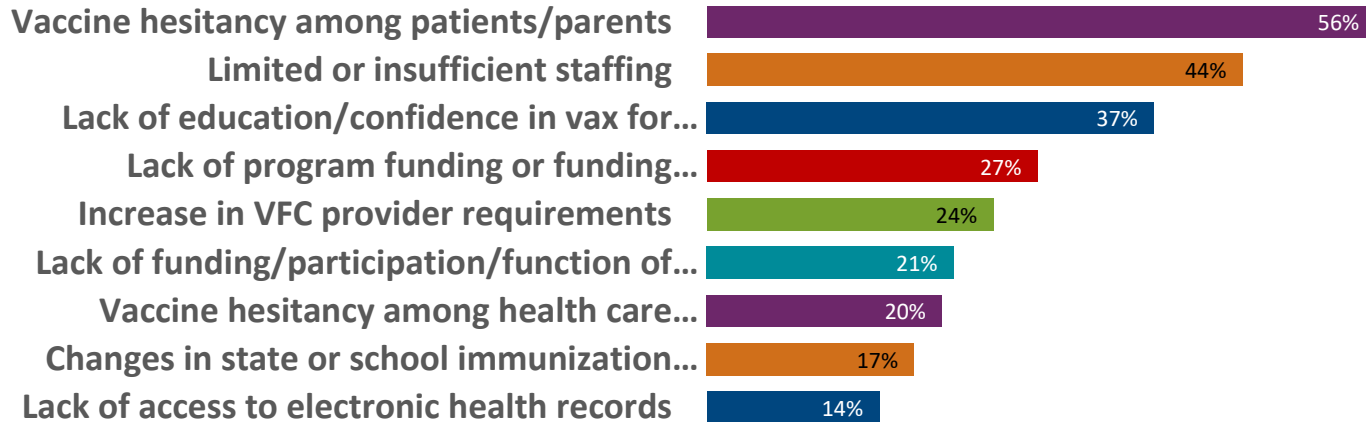
Program/service	% LHDs
Treatment for communicable diseases	
Tuberculosis	79%
Other STDs	63%
HIV/AIDS	35%
Maternal and child health services	
Women, Infants, and Children (WIC)	66%
Home visits	60%
Family planning	53%
Early and periodic screening, diagnosis, and treatment	38%
Well child clinic	29%
Prenatal care	27%
Obstetrical care	8%

Program/service	% LHDs
Other clinical services	
Laboratory services	38%
School-based clinics	34%
Oral health	28%
Asthma prevention and/or management	22%
Home health care	20%
Correctional health	13%
Substance abuse	11%
Comprehensive primary care	11%
Behavioral/mental health	10%
Emergency medical services	4%

n=1,461–1,899

2017 Assessment of LHD Immunization Programs

IZ Program Top Challenges





NACCHO Activities During the 2019 Measles Outbreaks



Communications Efforts

- NACCHO Platforms
 - Providing media talking points
 - Dissemination of updates, guidance, and tools
 - Convening advisory groups
- Social Media Messaging and Promotion of Vaccine Confidence
- Engagement with National Partners

The image shows a screenshot of a NACCHO Voice article and the NACCHO website interface. The article, titled "NACCHO Voice: The word on local health departments", features a statement from Lori Tremmel Freeman, NACCHO CEO, regarding ongoing measles outbreaks. The article text includes: "Yesterday, the Centers for Disease Control and Prevention confirmed there have been 626 individual cases of measles diagnosed across 22 states in the United States since the first of this year. We are on track to have the highest number of measles cases in the United States in 25 years, and for man this disease of the past is becoming a threat of the present." and "626 cases are far too many. These cases are not just numbers—they represent sick and an incredible financial strain pulled away from other public health programs." The website interface includes the NACCHO logo, navigation menu (RECENT UPDATES, E-LEARNING, FEATURED ARTICLES, TOOLS & RESOURCES, ABOUT), a search bar, and a "RECENT POSTS" section listing articles such as "Secretary Azar Statement on Measles Outbreaks and the Importance of Vaccines" and "Minneapolis Environmental Health Awarded 2019 Crusell Consumer Protection Award for Excellence in Food Protection".

NACCHO Voice

The word on local health departments

NACCHO CEO Releases Statement on Ongoing Measles Outbreaks

By Lori Tremmel Freeman, NACCHO CEO



"Yesterday, the Centers for Disease Control and Prevention confirmed there have been 626 individual cases of measles diagnosed across 22 states in the United States since the first of this year. We are on track to have the highest number of measles cases in the United States in 25 years, and for man this disease of the past is becoming a threat of the present.

"626 cases are far too many. These cases are not just numbers—they represent sick and an incredible financial strain pulled away from other public health programs.

"The image of a young child covered in the measles rash and suffering from fever is heartbreaking. No parent wants to see their child in pain, and children from harm. Even so, some well-intentioned parents have children from this devastating disease based on discredited and false information they are putting their children, themselves and others in their communities at risk.

"Simply put, vaccines are the best defense against the threat of viral diseases and play a vital role in protecting the health of communities. Immunization is one of the most successful and effective public health measures available to us, and we have an unparalleled record of disease reduction and prevention.

NACCHO

National Association of County & City Health Officials
The National Connection for Local Public Health

RECENT UPDATES | E-LEARNING | FEATURED ARTICLES | TOOLS & RESOURCES | ABOUT

Secretary Azar Statement on Measles Outbreaks and the Importance of Vaccines

Health and Human Services Secretary Alex Azar issued the following statement regarding the current measles outbreaks around the United States:

"The United States is seeing a resurgence of measles, a disease that had once been effectively eliminated from our country. And today, the Centers for Disease Control and Prevention has confirmed that ongoing measles outbreaks in 22 states has led to the highest number of cases reported nationwide since the disease was declared eliminated in this country in 2000. Measles is not a harmless childhood illness, but a highly contagious, potentially life-threatening disease. We have the ability to safely protect our children and our communities. Vaccines are a safe, highly effective public health solution that can prevent this disease. The measles vaccines are among the most extensively studied medical products we have, and their safety has been firmly established over many years in some of the largest vaccine studies ever undertaken.

"With a safe and effective vaccine that protects against measles, the suffering we are seeing is avoidable. The CDC is ready to support public health departments in monitoring and responding to outbreaks, and will continue to receive, review, and compile the latest reports of measles cases.

THE ESSENTIAL ELEMENTS OF LOCAL PUBLIC HEALTH

Search: Search

RECENT POSTS

- Minneapolis Environmental Health Awarded 2019 Crusell Consumer Protection Award for Excellence in Food Protection
- Listen Now: "Not Your Everyday Activation: Maximizing Emergency Response in Hepatitis A Outbreaks" Town Hall
- Menu Labeling Social Media Toolkit

Advancing Policy and Informing Advocacy

- House and Senate Hearings
- Legislation
- National Partner Meetings and Coalitions

NACCHO
National Association of County & City Health Officials
The National Connection for Local Public Health

FOR IMMEDIATE RELEASE
Contact
Theresa Spinner, MA
Director, Media & Public Relations
Direct: 202-783-5551
tspinner@naccho.org

NACCHO Supports New Congressional Effort to Address Vaccine Misinformation and Improve Vaccination Rates Across Country

Washington, DC, May 21, 2019 — Today, the [National Association of County and City Health Officials](#) (NACCHO), the voice of the nation's nearly 3,000 local health departments, released the following statement in support of the bipartisan Vaccine Awareness Campaign to Champion Immunization Nationally and Enhance Safety (VACCINE Act). This legislation aims to identify communities at risk for vaccine-preventable disease outbreaks, help educate the public, and combat misinformation about the safety of vaccines.

"Local health departments are on the frontlines of education about the importance of vaccines, identifying populations at risk, and providing access to these life-saving products. But as we have seen in the country that are battling measles outbreaks, there is more we need to do to ensure that we all take advantage of the protections that the bipartisan VACCINE Act is an important step towards getting the vaccine we need it most," said NACCHO Chief of Government and Public Affairs, MSW. "Vaccines save lives and prevent needless suffering. But as we have seen, every case of measles mobilizes an enormous financial and consuming response, where public health professionals must focus on preventing and tracking a potential outbreak. Across

H.R.2862 - To amend the Public Health Service Act to provide for a national system for surveillance of vaccine rates, to authorize research on vaccine hesitancy, to increase public understanding of the benefits of immunizations, and for other purposes.
116th Congress (2019-2020) | [Get alerts](#)

BILL | [Bill Overview](#)

Sponsor: [Rep. Scherrer, Kim \[D-WA-8\]](#) (Introduced 05/21/2019)

Committees: [House - Energy and Commerce](#)

Latest Action: [House - 05/21/2019 Referred to the House Committee on Energy and Commerce. \[\\(All Actions\\)\]\(#\)](#)

Tracker: [Introduced](#) | [Passed House](#) | [Passed Senate](#) | [To President](#) | [Became Law](#)

[Summary \(0\)](#) | [Text](#) | [Actions \(2\)](#) | [Titles \(1\)](#) | [Amendments \(0\)](#) | [Cosponsors \(0\)](#) | [Committees \(1\)](#) | [Related Bills \(0\)](#)

Text: H.R.2862 — 116th Congress (2019-2020) | [All Information](#) (Except Text)

As of 06/03/2019 text has not been received for H.R.2862 - To amend the Public Health Service Act to provide for a national system for surveillance of vaccine rates, to authorize research on vaccine hesitancy, to increase public understanding of the benefits of immunizations, and for other purposes.











Bills are generally sent to the Library of Congress from GPO, the Government Publishing Office, a day or two after they are introduced on the floor of the House or Senate. Delays can occur when there are a large number of bills to prepare or when a very large bill has to be printed.



NACCHO Recommendations and Next Steps



NACCHO Recommendations

-   Increased support for IZ programs and workforce development
-   Further exploration of evidence-based strategies
-   Improve data systems to enhance vaccine delivery
-   Continued coordination within federal government
-   Integration of immunization across the life span throughout existing efforts

NACCHO Immunization Staff



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Public Meeting
**NATIONAL
VACCINE
ADVISORY
COMMITTEE**
June 4, 2019



NVAC

June 4, 2019

PUBLIC COMMENT



June 4, 2019

ADJOURN



Public Meeting

**NATIONAL
VACCINE
ADVISORY
COMMITTEE**

June 4, 2019



NVAC