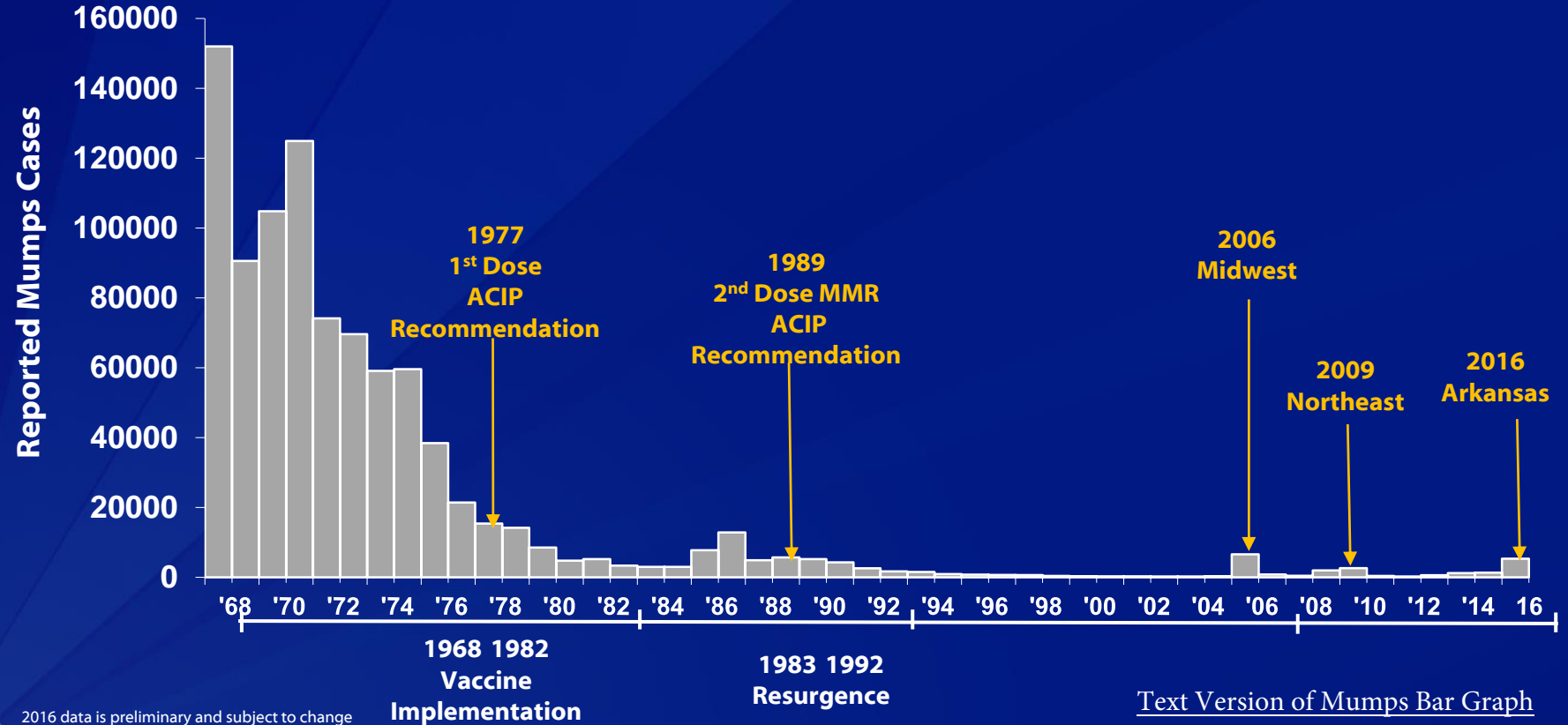


National Mumps Update, January – December 2016

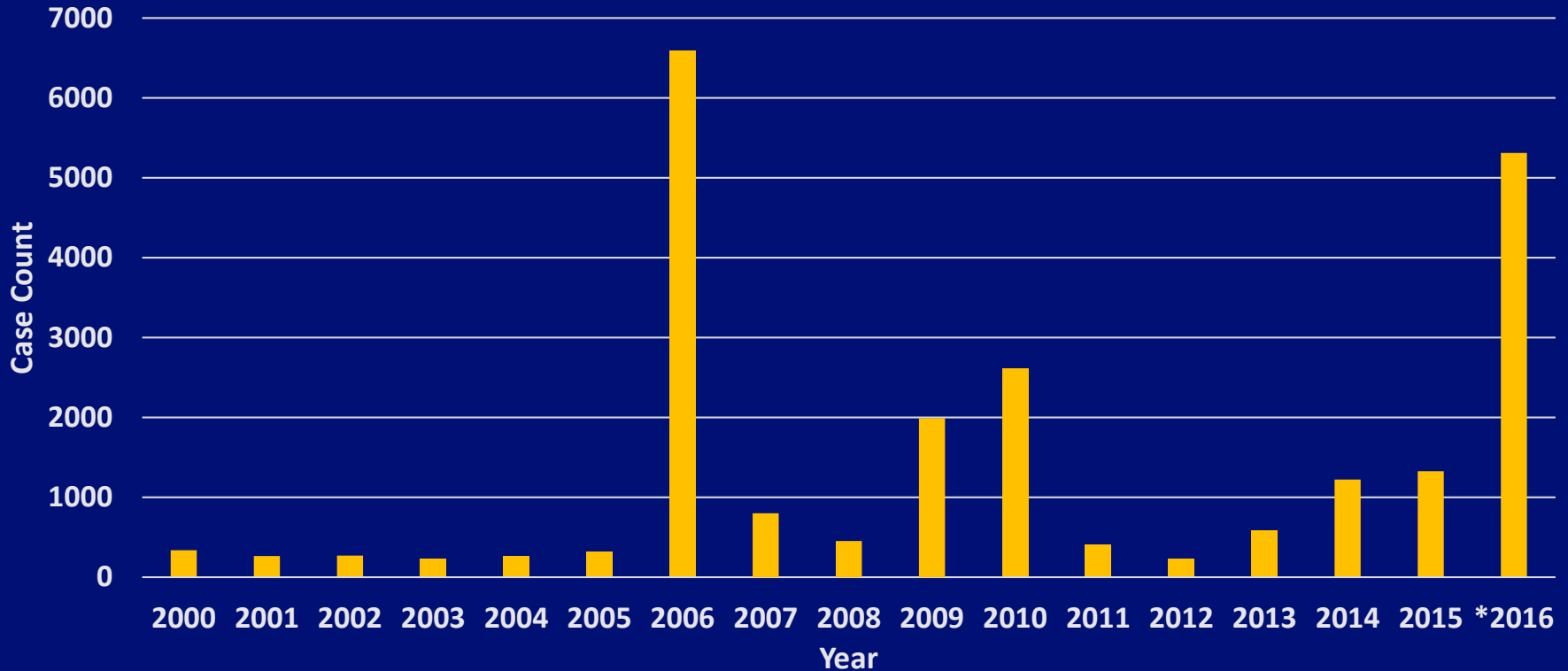
Dr. Nancy Messonnier
NCIRD Director

Mumps, Vaccine Era, United States, 1968- 2016*



2016 data is preliminary and subject to change

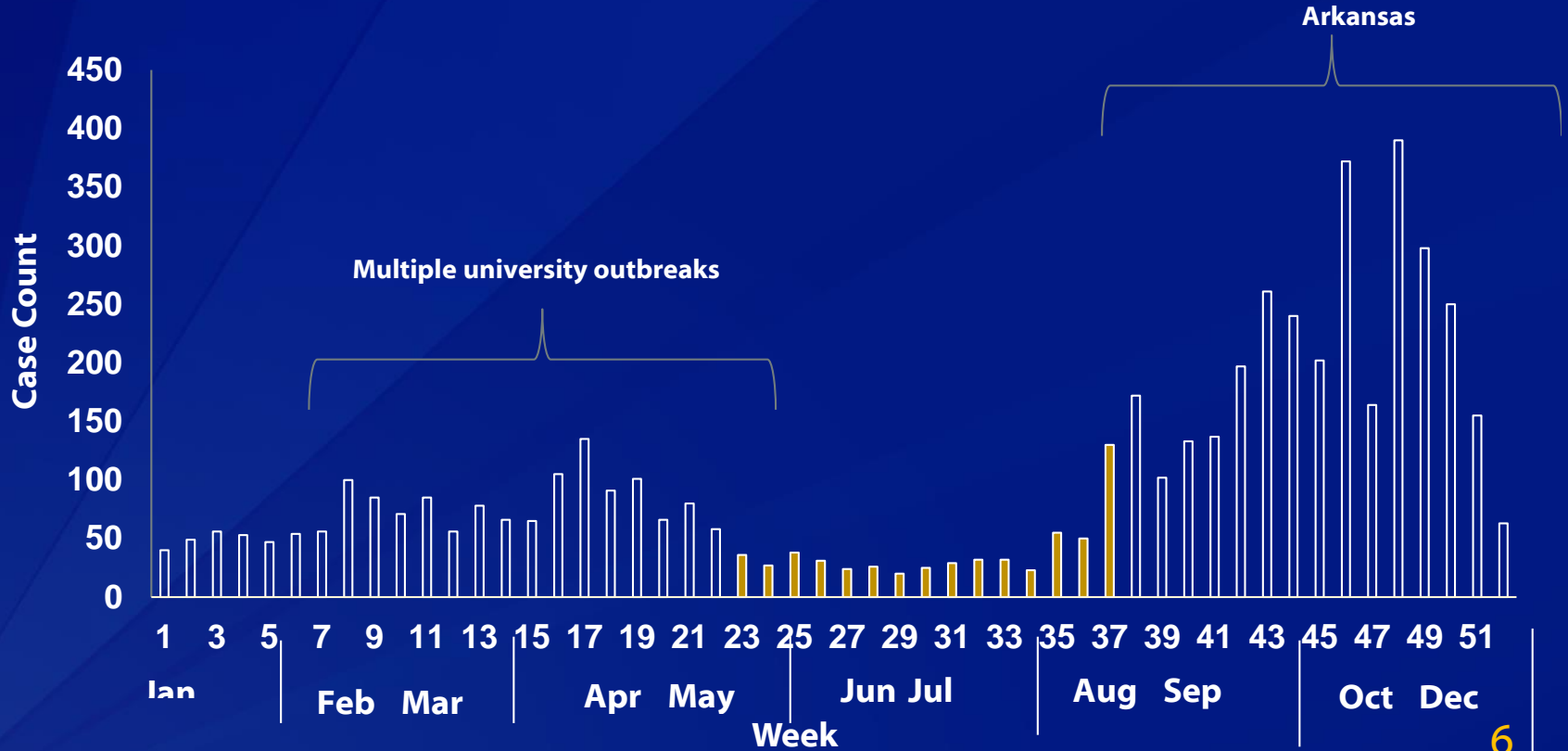
Mumps Cases in U.S., by Year



*NNDSS data, last accessed Jan 6th, 2016. 2016 data is preliminary and subject to change

[Text Version of Mumps Bar Graph](#)

U.S. Mumps Cases by Epi Week, 1-52, 2016* (n=5,311)



Text Version of Mumps Bar Graph

Text Versions of slides

Mumps, Vaccine Era, United States, 1968 to 2016

This slide is a bar graph which shows the decline in the number of reported mumps cases from the year 1968 to 2016.

- In 1968 there were 152,019 mumps cases reported. In the same year, mumps vaccine became available in the United States.
- In 1977 the Advisory Committee on Immunization Practices recommended the first dose of mumps vaccine as part of the routine childhood immunization schedule.
- By 1978, the number of reported mumps cases declined significantly to 15,409 and continued to steadily decline through 1982 with less than 3,000 cases reported annually.
- The period between 1968 and 1982 is called the Vaccine Implementation Period.
- However this was followed by a resurgence of mumps cases. In 1986 the total number of reported cases increased to 7,773 and in 1987 there were 12,848 cases.
- In 1989 the Advisory Committee on Immunization Practices recommended a second dose of the MMR vaccine.
- The number of reported mumps cases declined and reached its lowest point in 2003 with 231 cases.
- However, since 2006, additional mumps outbreaks have occurred.
- In 2006, an outbreak of mumps occurred in the Midwest and the total number of reported mumps cases increased to 6,584.
- In 2009, an outbreak occurred in the Northeast and the total number of reported cases increased to 1,991.
- In 2016, the preliminary total number of reported mumps cases increased to 5,311. The data from the year 2016 is preliminary and subject to change.

Mumps Cases in the United States, by Year from 2000 to 2016

This slide is a bar graph which shows the annual total case count of mumps for 2000 through 2016.

- From 2000 through 2005 the case count of mumps remained low ranging from 231 to 338 cases per year.
- In 2006, the case count for mumps increased to 6,584 and dropped in 2007 to 800 cases followed by a decrease in 2008 to 454 cases.
- In 2009 and 2010, mumps cases increased to 1,991 and 2,612 cases respectively.
- Mumps cases decreased in 2011 to 404 cases and in 2012 to 229 cases.
- Starting in 2014, mumps cases has increased each year with 1,222 cases in 2014; 1,328 cases in 2015; and 5,311 cases in 2016.
- Footnote: The 2016 data was last accessed on January 6, 2016 from the National Notifiable Diseases Surveillance System. The 2016 data is preliminary and subject to change

United States Mumps Cases and Outbreaks, 2016

Total number of cases was 5,311

This slide is a map of the United States showing states that had mumps outbreaks and the range of the number of cases for each state as of December 31, 2016

- Nineteen states had mumps outbreaks in 2016. From highest to lowest case range, the states are as follows:
 - Arkansas, Illinois, Iowa, New York and Oklahoma. The total number of cases in each state was greater than or equal to 300.
 - Indiana, Massachusetts and Texas. The total number of cases in each state ranged from 100 to 299.
 - California, Kentucky, Missouri, and Ohio. The total number of cases in each state ranged from 50 to 99.
 - Connecticut, Maine, Montana, North Carolina, Oregon, and Washington. The total number of cases in each state ranged from 20 to 49.
 - Colorado. The total number of cases ranged from 3 to 19.

- Twenty-four states and Washington, DC had mumps cases, but no outbreaks. These states are as follows:
 - Minnesota, Nebraska, New Jersey, and Wisconsin. The total number of cases in each state ranged from 20 to 49.
 - Alabama, Arizona, Florida, Georgia, Hawaii, Kansas, Maryland, Michigan, Nevada, New Hampshire, North Dakota, Pennsylvania, Tennessee, South Carolina, Virginia, and Washington D.C.. The total number of cases in each state ranged from 3 to 19 cases.
 - Alaska, Idaho, Mississippi, New Mexico, Rhode Island, South Dakota, Utah, and West Virginia each had a total of 1 to 2 mumps cases.

- Four states has zero mumps cases. They were Delaware, Louisiana, Vermont and Wyoming.

2016 Mumps Cases in the United States, by Epidemiological Week (weeks 1-52)

Total number of cases was 5,311

- This is a bar graph of the total case count of mumps from January through December 2016 by epidemiological week, otherwise referred to as epi week. Epi week 1 starts in January and ends with week 52 in December.
- Starting in January (or epi week 1) there were 40 reported cases of mumps
- The weekly count of mumps cases remained below 60 during January and early February (or epi weeks 2-7).
- Starting in mid-February, or epi week 8, the reported number of mumps cases increased to 100.
- From mid-February to late May (or epi weeks 8 through 23) multiple university outbreaks of mumps occurred and weekly case counts remain elevated. Notably, in the last week of April (or epi week 17), the mumps case count increased to 135, but declines to 27 cases by epi week 24 (or late May).
- June through early September (or epi weeks 25 through 36), the mumps case count remains low. By mid-September (or epi week 37), the case count for mumps increased to 130. During epi weeks 37 through 52, a mumps outbreak occurred in Arkansas. The case count of mumps continued to increase to 261 in week 43. In early December (or epi week 48), the case count for mumps increased to 390. Case count for mumps starts to decrease at the end of December, from 155 cases in week 51 to 63 cases in week 52.