

Supplemental Materials

Characteristics of Adult Mumps Cases, 2007–2019

During 2007–2019, US health departments reported 28 306 mumps cases, of which 19 054 (67%) were adult cases (median age = 26 years; range: 18–101). All 50 states and the District of Columbia reported mumps cases, with a median of 162 adult cases (range: 1–2775) per state.

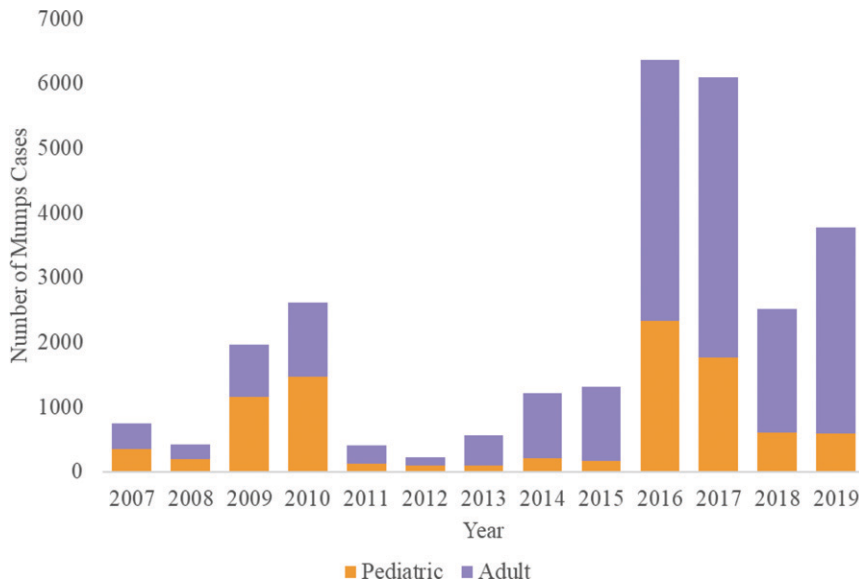
The median number of adult mumps cases reported each year was 1005

(range: 127–4339) (Supplemental Figure 6).

Median annual adult incidence was 4.1 per 1 000 000 population (range: 0.5–17.2) (Supplemental Figure 7).

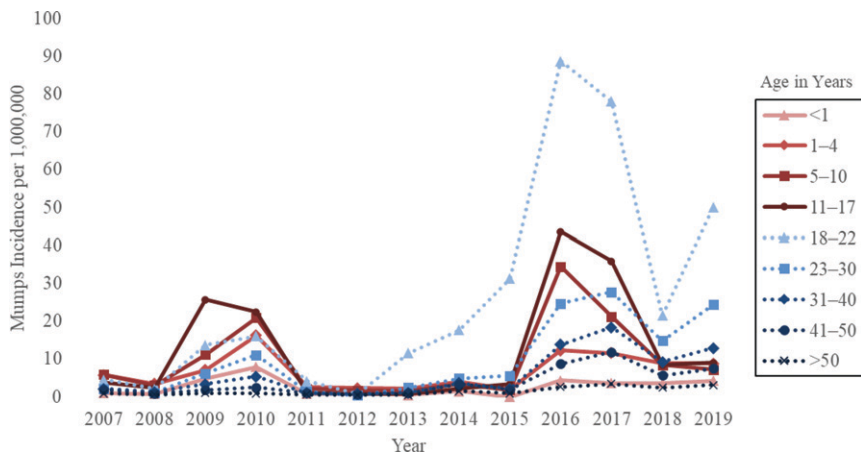
Among adult mumps patients who had information on whether they were vaccinated (50% of patients), 74% had ≥ 1 MMR dose (median = 72% of patients, range: 53%–96% per year) (Supplemental Figure 8).

Among adult cases with information available on whether they were associated with a known outbreak (83% of cases), 66% were outbreak-associated. Adult cases were mostly outbreak-associated (median outbreak-associated = 54%, range: 2%–82% per year), and most cases were outbreak-associated each year starting in 2013 (Supplemental Figure 9).

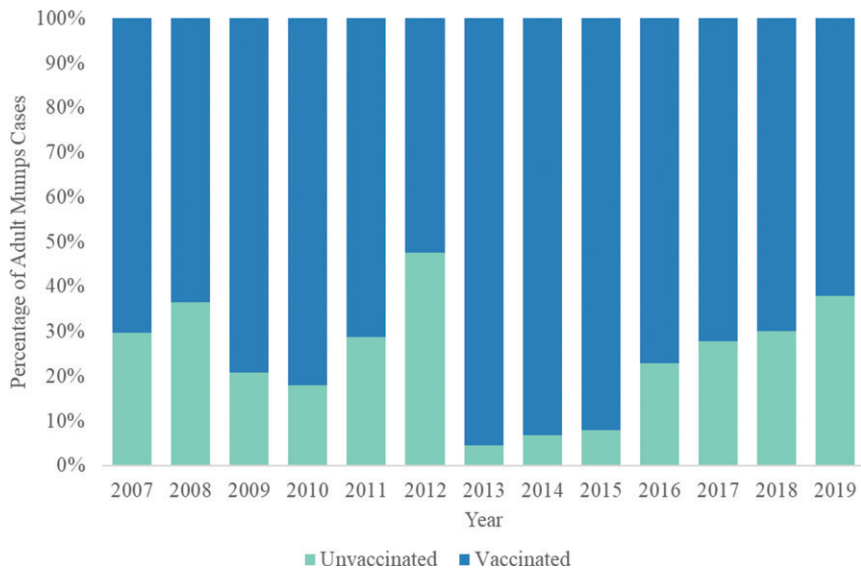


SUPPLEMENTAL FIGURE 6

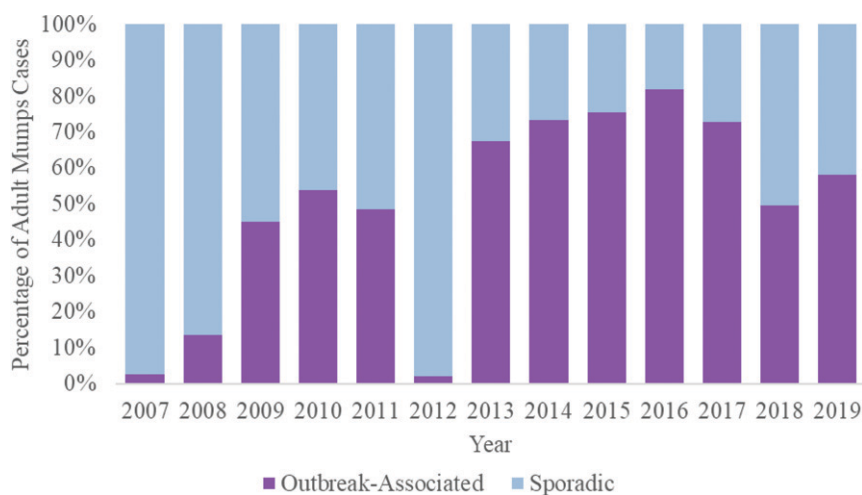
Number of reported pediatric and adult mumps cases: United States, 2007–2019 ($N = 28\,226$); 80 (<1%) cases did not have information on patient age.



SUPPLEMENTAL FIGURE 7
Incidence of reported mumps patients by age group: United States, 2007–2019.



SUPPLEMENTAL FIGURE 8
Adult mumps cases by vaccination status: United States, 2007–2019 ($N = 9545$); 9509 (50%) adult cases did not have information on vaccination status.



SUPPLEMENTAL FIGURE 9

Adult mumps cases by reported association with an outbreak: United States, 2007–2019 (*N* = 15 725); 3329 (17%) adult patients did not have information on outbreak association.

SUPPLEMENTAL TABLE 3 Case Classification of Confirmed and Probable Mumps Cases According to CSTE Case Definitions

Year	Confirmed	Probable
2008 ¹³	A case that (1) meets the clinical case definition ^a or has clinically compatible illness ^b and (2) is either laboratory confirmed or is epidemiologically linked to a confirmed case	A case that meets the clinical case definition ^a without laboratory confirmation and is epidemiologically linked to a clinically compatible case
2010 ¹⁴	A case that (1) meets the clinical case definition ^a or has clinically compatible illness ^b and (2) is either laboratory confirmed or is epidemiologically linked to a confirmed case	A case that meets the clinical case definition ^a without laboratory confirmation and is epidemiologically linked to a clinically compatible case
2012 ¹⁵	A positive mumps laboratory confirmation for mumps virus with RT-PCR or culture in a patient with an acute illness characterized by acute parotitis or other salivary gland swelling, lasting at least 2 d, aseptic meningitis, encephalitis, hearing loss, orchitis, oophoritis, mastitis, or pancreatitis	Acute parotitis or other salivary gland swelling lasting at least 2 d, or orchitis or oophoritis unexplained by another more likely diagnosis in a person with a positive test for serum anti-mumps IgM antibody or a person with epidemiological linkage to another probable or confirmed case or linkage to a group-community defined by public health during an outbreak of mumps

^a Clinical case definition: an illness with acute onset of unilateral or bilateral tender, self-limited swelling of the parotid and/or other salivary gland(s), lasting at least 2 d, and without other apparent cause.

^b Clinically compatible illness: infection with mumps virus may present as aseptic meningitis, encephalitis, hearing loss, orchitis, oophoritis, parotitis or other salivary gland swelling, mastitis, or pancreatitis.