

# Summary of Vaccine Preventable Diseases in Colorado - 2009

## DIPHTHERIA

The last diphtheria case in CO was reported in 1985. Diphtheria continues to occur in many parts of the world.

## *Haemophilus influenzae (H. flu)*

Invasive disease due to *H. flu* type b (Hib) has almost disappeared in the United States since the introduction of Hib vaccine. In 2009, only 3 of 76 *H. flu* cases reported in CO were Hib (an un-immunized infant, an under-immunized infant, and an adult).

## HEPATITIS A

53 confirmed hepatitis A cases were reported in CO during 2009. The first hepatitis A vaccine was licensed in 1995 and the number of cases has declined dramatically since then. In 2000, 215 cases were reported.

## HEPATITIS B (Acute)

34 acute hepatitis B cases were reported in CO during 2009. The 5-year annual average (2004-2008) was 47 cases.

## MEASLES

Only 4 measles cases were reported in CO from 1997 – 2009 (2 in 2000, 1 in 2004, 1 in 2006). All 4 cases were linked to out-of-state or international travel. Large measles outbreaks (>100 cases / year) occurred in CO during 1988-1990.

## MENINGOCOCCAL

Meningococcal conjugate vaccine became available in 2005. 24 meningococcal cases were reported in 2009; 19 cases were caused by vaccine serogroups (A, C, Y, and W-135).

## MUMPS

6 mumps cases were reported in CO during 2009. During 2006 when surveillance was increased due to a multi-state outbreak, 51 cases were reported. Since 2006, the 2-year annual average (2007-2008) was 13 mumps cases per year.

## PERTUSSIS

201 pertussis cases were reported in CO during 2009. The age group having the highest rate of pertussis in 2009 was infants <1 year of age (43.6/100,000). The majority of cases in the <1 year-old age group (74%) were under 7 months of age and, therefore, too young to receive the minimum of three doses of pertussis vaccine needed for protection. During 2005, the highest number of cases (1383) since 1948 was reported. There were five pertussis deaths reported 2000 through 2009; 2 in 2000, 1 in 2004, and 2 in 2005. All five pertussis deaths were infants 2 months of age and younger.

## PNEUMOCOCCAL DISEASE

623 cases of invasive pneumococcal disease were reported in CO during 2009. 54 of these cases were children less than 5 years of age. The age groups having the highest rate of pneumococcal disease in 2009 were infants <1 year of age (33.8/100,000) and adults ≥60 years of age (31.7/100,000).

## POLIO

The last case of polio caused by wild virus in the United States was in 1979. In 1994, the World Health Organization certified the Western Hemisphere as free of wild poliovirus. Polio is still endemic in 4 countries (Afghanistan, India, Nigeria, and Pakistan) and 10 additional countries are considered to have active transmission of imported poliovirus.

## RUBELLA

No rubella cases were reported in CO during 2009. During the previous 10 years (1999-2008), only 3 rubella cases were reported (1999, 2000, and 2003). During the past 10 years (1999-2008), only 1 case of congenital rubella syndrome was reported (1999).

## TETANUS

No tetanus cases were reported in CO during 2009. In CO, the 10-year annual average (1999-2008) for tetanus was less than one case per year.

## VARICELLA (CHICKENPOX)

Varicella became a reportable condition in Colorado on January 30, 2004. By 2009, the number of varicella cases had dropped 75% since it became reportable in 2004.