

## Vaccine-Preventable Diseases and the Vaccines that Prevent Them

Vaccines required to enter into child care, early childhood programs, and elementary or secondary schools (public or private).

Vaccine/Disease	Disease spread by	Disease symptoms	Disease complications
<b>DTaP or Tdap</b> vaccine protects against diphtheria, pertussis, and tetanus	Diphtheria: Air, direct contact Pertussis: Air, direct contact Tetanus: Exposure through cuts in skin	Diphtheria: Sore throat, mild fever, weakness, swollen glands in neck Pertussis: Severe cough, runny nose, apnea (a pause in breathing in infants) Tetanus: Stiffness in neck and abdominal muscles, difficulty swallowing, muscle spasms, fever	Diphtheria: Swelling of the heart muscle, heart failure, coma, paralysis, death Pertussis: Pneumonia (infection in the lungs), brain damage, death Tetanus: Broken bones, breathing difficulty, death
<b>Hib</b> vaccine protects against <i>Haemophilus influenzae</i> type b	Direct contact, air	May be no symptoms unless bacteria enters the blood	Meningitis (infection of the covering around the brain and spinal cord), shock due to blood infection, swelling of the throat that can lead to serious breathing problems, pneumonia, death
<b>Hep A</b> vaccine protects against hepatitis A	Direct contact, contaminated food or water	Fever, stomach pain, loss of appetite, fatigue, vomiting, jaundice (yellowing of skin and eyes), dark urine or no symptoms	Liver failure, joint pain, kidney, pancreatic, and blood disorders
<b>Hep B</b> vaccine protects against hepatitis B	Contact with blood or body fluids	Fever, headache, weakness, vomiting, jaundice, joint pain, or no symptoms	Chronic liver infection, cirrhosis, liver failure, liver cancer
<b>MMR</b> vaccine protects against measles, mumps, and rubella	Air, direct contact	Measles: High fever, cough, runny nose, red watery eyes, rash Mumps: Swollen salivary glands (under the jaw), fever, headache, tiredness, muscle pain Rubella: Rash, fever, swollen lymph nodes	Measles: Seizures, ear infection, brain swelling, pneumonia, death Mumps: Meningitis, brain swelling, deafness, swelling of testicles or ovaries Rubella: Very serious in pregnant women—can lead to miscarriage, stillbirth, premature delivery, birth defects
<b>MCV</b> vaccine protects against meningococcal	Air, direct contact	Severe headache, fever, nausea, vomiting, bruising rash, confusion, extreme sleepiness	Blood infections, amputation, deafness, nervous system problems, developmental disabilities, seizures, death
<b>PCV</b> vaccine protects against pneumococcal	Air, direct contact	Fever, cough or difficulty breathing, weakness, severe headache or irritability, or no symptoms	Blood infections, meningitis, pneumonia, death
<b>Polio</b> vaccine protects against polio	Direct contact, through the mouth, air	Sore throat, fever, nausea, headache, leg weakness, or no symptoms	Paralysis, death
<b>Varicella</b> vaccine protects against chickenpox	Air, direct contact	Itchy rash, fever, tiredness, headache	Skin infection, bleeding disorders, brain swelling, pneumonia

Vaccines recommended but not required by the Immunization Law

Vaccine/Disease	Disease spread by	Disease symptoms	Disease complications
<b>HPV</b> vaccine protects against human papillomavirus	Sex, intimate contact	Warts on genitals, or no symptoms	Cervical, vaginal, or vulvar cancer in females; penile cancer in males; anal or oral cancer and genital warts in males and females. Need for treatment of cervical precancers in females.
<b>Flu</b> vaccine protects against influenza	Air, direct contact	Fever, muscle pain, sore throat, cough, extreme fatigue	Pneumonia, death
<b>Rotavirus</b> vaccine protects against rotavirus	Through the mouth	Diarrhea, fever, vomiting	Dehydration, collapse