

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 |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DTaP or Tdap 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, severe muscle spasms, death, |
| Hib vaccine protects against <i>Haemophilus influenzae</i> type b | Direct contact, air | May be no symptoms unless bacteria enters the blood; generalized weakness and fever, stiff neck, confusion, irritability, local infections, joint pain | 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, hearing loss, pneumonia, bone and heart infections, death |
| Hep A 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), joint pain, dark urine or no symptoms | Liver failure |
| Hep 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 |
| MMR 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), testicle or ovary swelling, fever, headache, tiredness, muscle pain Rubella: Rash, fever, swollen lymph nodes | Measles: Brain swelling, seizures, ear infection, pneumonia, death Mumps: Meningitis, brain swelling, deafness, sterility Rubella: Very serious in pregnant women—can lead to miscarriage, stillbirth, premature delivery, birth defects |
| MCV 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 |
| PCV 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 |
| Polio vaccine protects against polio | Direct contact, through the mouth, air | Sore throat, fever, nausea, headache, leg weakness, or no symptoms | Paralysis, chronic muscle weakness, death |
| Varicella 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 |
|----------------------------------------------------------|-----------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HPV 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. Chronic infections requiring ongoing treatment. |
| Flu vaccine protects against influenza | Air, direct contact | Fever, muscle pain, sore throat, cough, extreme fatigue | Pneumonia, Guillain-Barré syndrome, death |
| Rotavirus vaccine protects against rotavirus | Through the mouth | Diarrhea, fever, vomiting | Dehydration, collapse |