

Diseases and the Vaccines that Prevent Them

BIRTH–6 YEARS OLD

| DISEASE | VACCINE | DISEASE SPREAD BY | DISEASE SYMPTOMS | DISEASE COMPLICATIONS |
|--|--|--|---|---|
| Hepatitis B | HepB vaccine protects against hepatitis B. | Contact with blood or body fluids | May be no symptoms, fever, headache, weakness, vomiting, jaundice (yellowing of skin and eyes), joint pain | Chronic liver infection, liver failure, liver cancer, death |
| Rotavirus | RV vaccine protects against rotavirus. | Through the mouth | Diarrhea, fever, vomiting | Severe diarrhea, dehydration, death |
| Diphtheria | DTaP* vaccine protects against diphtheria. | Air, direct contact | Sore throat, mild fever, weakness, swollen glands in neck | Swelling of the heart muscle, heart failure, coma, paralysis, death |
| Pertussis (whooping cough) | DTaP* vaccine protects against pertussis (whooping cough). | Air, direct contact | Severe cough, runny nose, apnea (a pause in breathing in infants) | Pneumonia (infection in the lungs), death |
| Tetanus | DTaP* vaccine protects against tetanus. | Exposure through cuts in skin | Stiffness in neck and abdominal muscles, difficulty swallowing, muscle spasms, fever | Broken bones, breathing difficulty, death |
| Haemophilus influenzae type b (Hib) | Hib vaccine protects against <i>Haemophilus influenzae</i> type b. | Air, direct contact | May be no symptoms unless bacteria enter the blood | Meningitis (infection of the covering around the brain and spinal cord), intellectual disability, epiglottitis (life-threatening infection that can block the windpipe and lead to serious breathing problems), pneumonia (infection in the lungs), death |
| Pneumococcal disease (PCV13, PCV15) | PCV vaccine protects against pneumococcal disease. | Air, direct contact | May be no symptoms, pneumonia (infection in the lungs) | Bacteremia (blood infection), meningitis (infection of the covering around the brain and spinal cord), death |
| Polio | IPV vaccine protects against polio. | Air, direct contact, through the mouth | May be no symptoms, sore throat, fever, nausea, headache | Paralysis, death |
| Coronavirus disease 2019 (COVID-19) | COVID-19 vaccine protects against severe complications from coronavirus disease 2019. | Air, direct contact | May be no symptoms, fever, muscle aches, sore throat, cough, runny nose, diarrhea, vomiting, new loss of taste or smell | Pneumonia (infection in the lungs), respiratory failure, blood clots, bleeding disorder, injury to liver, heart or kidney, multi-system inflammatory syndrome, post-COVID syndrome, death |
| Influenza (Flu) | Flu vaccine protects against influenza. | Air, direct contact | Fever, muscle pain, sore throat, cough, extreme fatigue | Pneumonia (infection in the lungs), bronchitis, sinus infections, ear infections, death |
| Measles | MMR** vaccine protects against measles. | Air, direct contact | Rash, fever, cough, runny nose, pink eye | Encephalitis (brain swelling), pneumonia (infection in the lungs), death |
| Mumps | MMR** vaccine protects against mumps. | Air, direct contact | Swollen salivary glands (under the jaw), fever, headache, tiredness, muscle pain | Meningitis (infection of the covering around the brain and spinal cord), encephalitis (brain swelling), inflammation of testicles or ovaries, deafness, death |
| Rubella | MMR** vaccine protects against rubella. | Air, direct contact | Sometimes rash, fever, swollen lymph nodes | Very serious in pregnant women—can lead to miscarriage, stillbirth, premature delivery, birth defects |
| Chickenpox | Varicella vaccine protects against chickenpox. | Air, direct contact | Rash, tiredness, headache, fever | Infected blisters, bleeding disorders, encephalitis (brain swelling), pneumonia (infection in the lungs), death |
| Hepatitis A | HepA vaccine protects against hepatitis A. | Direct contact, contaminated food or water | May be no symptoms, fever, stomach pain, loss of appetite, fatigue, vomiting, jaundice (yellowing of skin and eyes), dark urine | Liver failure, arthralgia (joint pain), kidney, pancreatic and blood disorders, death |

DTaP* DTaP combines protection against diphtheria, tetanus, and pertussis.

MMR** MMR combines protection against measles, mumps, and rubella.

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