

Diseases and the Vaccines that Prevent Them

7-18 YEARS OLD

| DISEASE | VACCINE | DISEASE SPREAD BY | DISEASE SYMPTOMS | DISEASE COMPLICATIONS |
|--|---|--|---|---|
| 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 |
| Tetanus | Tdap* and Td** vaccines protect against tetanus. | Exposure through cuts in skin | Stiffness in neck and abdominal muscles, difficulty swallowing, muscle spasms, fever | Broken bones, breathing difficulty, death |
| Diphtheria | Tdap* and Td** vaccines protect 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) | Tdap* 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 |
| Human papillomavirus | HPV vaccine protects against human papillomavirus. | Direct skin contact | May be no symptoms, genital warts | Cervical, vaginal, vulvar, penile, anal, oropharyngeal cancers |
| Meningococcal disease | MenACWY MenB vaccines protect against meningococcal disease. | Air, direct contact | Sudden onset of fever, headache, and stiff neck, dark purple rash | Loss of limb, deafness, nervous system disorders, developmental disabilities, seizure disorder, stroke, 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 |
| 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 |
| Polio | IPV vaccine protects against polio. | Air, direct contact, through the mouth | May be no symptoms, sore throat, fever, nausea, headache | Paralysis, death |
| Dengue | Dengue† vaccine protects against dengue. | Bite from infected mosquito | May be no symptoms, fever, headache, pain behind the eyes, rash, joint pain, body ache, nausea, loss of appetite, feeling tired, abdominal pain | Severe bleeding, seizures, shock, damage to the liver, heart, and lungs, death |

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

Td** Td combines protection against diphtheria and tetanus.

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

Dengue† Recommended where dengue is common.

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