

# DISEASES AND RECOMMENDED IMMUNIZATIONS

Use the information on this page with the family-friendly infographic page when talking with patients.

See the [recommended schedule](#) for additional details, including vaccines recommended for special circumstances.

| Disease  | Vaccine   | Disease spread by   | Disease symptoms  | Disease complications   |
|--|---|---|---|---|
| <b>Hepatitis B (HepB)</b>                          | HepB vaccine protects against hepatitis B                   | Contact with blood or body fluids, from the pregnant person to the baby in the womb                     | Fever, headache, weakness, vomiting, yellow skin and eyes (jaundice), joint pain, or no symptoms  | Chronic liver infection, liver failure, liver cancer, death   |
| <b>Rotavirus (RV)</b>                              | Rotavirus vaccine protects against rotavirus                | Through the mouth from food, water or hands that are contaminated by fecal matter                       | Diarrhea, fever, vomiting   | Severe diarrhea, dehydration, death   |
| <b>Diphtheria</b>                                  | 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   |
| <b>Pertussis (whooping cough)</b>                  | DTaP* vaccine protects against pertussis                    | Air, direct contact   | Severe cough, runny nose, apnea (a pause in breathing)  | Lung infection (pneumonia), death   |
| <b>Tetanus</b>                                     | DTaP* vaccine protects against tetanus (lockjaw)            | Exposure through cuts in skin and contact with soil   | Stiff muscles in the neck and abdomen, trouble swallowing, muscle spasms, fever   | Broken bones, breathing difficulty, death   |
| <b>Haemophilus influenzae type b disease (Hib)</b> | Hib vaccine   | Air, direct contact   | Sometimes Hib stays in the nose or throat and doesn't cause symptoms. Hib bacteria that enter the blood can cause serious infections.                                   | Infection of the covering around the brain and spinal cord (meningitis), intellectual disability, life-threatening infection that can block the windpipe and lead to serious breathing problems (epiglottitis), lung infection (pneumonia), death |
| <b>Invasive pneumococcal disease</b>               | PCV vaccines protect against pneumococcal disease           | Air, direct contact   | Sometimes bacteria stay in the nose or throat and do not cause symptoms. Bacteria that enter the blood can cause serious infections, including pneumonia.               | Blood infection (bacteremia), infection of the covering around the brain and spinal cord (meningitis), death  |
| <b>Poliomyelitis (polio)</b>                       | Inactivated poliovirus vaccine (IPV) protects against polio | Air, direct contact, through the mouth from food, water, or hands that are contaminated by fecal matter | Sore throat, fever, nausea, headache, or no symptoms  | Paralysis (may be permanent), death   |
| <b>COVID-19</b>                                    | COVID-19 vaccine  | Air, direct contact   | Fever/chills, cough, shortness of breath/trouble breathing, fatigue, aches, loss of taste or smell, sore throat, nausea or vomiting, diarrhea, congestion or runny nose | Multiorgan or autoimmune conditions, diabetes, heart problems, blood clots, neurological conditions, multisystem inflammatory syndrome in children (MIS-C), long COVID, death   |
| <b>Influenza (flu)</b>                             | Flu vaccine protects against influenza                      | Air, direct contact   | Fever, muscle pain, sore throat, cough, extreme fatigue   | Lung infection (pneumonia), inflammation of heart or brain, death   |
| <b>Measles</b>                                     | MMR** vaccine protects against measles                      | Air, direct contact   | Rash, fever, cough, runny nose, pink eye  | Brain swelling (encephalitis), lung infection (pneumonia), complications in the brain 7-10 years after infection, death   |
| <b>Mumps</b>                                       | MMR** vaccine protects against mumps                        | Air, direct contact   | Swollen neck (salivary glands), fever, headache, tiredness, muscle pain   | Infection of the covering around the brain and spinal cord (meningitis), brain swelling (encephalitis), swelling of testicles or ovaries, deafness, death   |
| <b>Rubella</b>                                     | MMR** vaccine protects against rubella                      | Air, direct contact, through the mouth  | Rash, fever, swollen lymph nodes  | Very serious in pregnant women and can lead to miscarriage, stillbirth, premature delivery, birth defects   |
| <b>Varicella (chickenpox)</b>                      | Varicella vaccine protects against chickenpox               | Air, direct contact   | Rash, tiredness, headache, fever  | Infected blisters, bleeding disorders, brain swelling (encephalitis), lung infection (pneumonia), death   |
| <b>Hepatitis A (HepA)</b>                          | HepA vaccine protects against hepatitis A                   | Direct contact, through the mouth from food, water or hands that are contaminated by fecal matter       | Fever, stomach pain, loss of appetite, fatigue, vomiting, yellowing of the skin and eyes (jaundice), dark urine, or no symptoms.  | Liver failure, joint pain, kidney, pancreatic and blood disorders, death  |

\*DTaP vaccine combines protection against diphtheria, tetanus and pertussis

\*\*MMR vaccine combines protection against measles, mumps and rubella

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