

## CHMA Childhood Immunizations

Disease & ages of routine doses	It is a:	You can get it from:	Signs and symptoms of this disease include:	This disease can lead to:	Vaccine(s) and their potential side effects
<b>Hepatitis B</b> Birth, 6 wks, 6 m	Virus	Contact with the blood or body fluids of an infected person, including via a cut or wound or bite	Tiredness, diarrhea, vomiting, jaundice, pains in muscles, joints and stomach (Prior to vaccination 450,000 new cases /year in the US; 16,000 in kids <10. Now 80,000 people infected/ year.)	Liver damage, liver cancer (1 in 4 infected children), liver failure and death (4000-5000 deaths per year in the US)	HBV  Allergic reaction in 1 per every 1.1 million doses
<b>Diphtheria</b> 6 wk, 4 m, 6 m, 15 m, 4 yrs, 11 yrs	Bacteria	Contact with an infected person via respiratory droplets or skin lesions	Thick covering in the back of the throat which can make it hard to breathe	Breathing problems, heart failure, respiratory failure and death (1 in 5 in kids under 5)	DTaP-IPV-Hib, DTaP-IPV, DTaP, DT, Tdap, Td
<b>Tetanus</b> ("Lockjaw") 6 wk, 4 m, 6 m, 15 m, 4 yrs, 11 yrs	Bacteria	A cut or wound	Painful tightening of muscles all over the body	Stiffness of the jaw leading to inability to swallow. Death in 1 in 5.  25% of cases in the United States are in California.	Local tenderness after the vaccine is common  DTaP: Prolonged crying-1/1000 Convulsions then full recovery-1/14,000 Acute encephalopathy- Less than 1 per 1 million Death-none
<b>Pertussis</b> ("Whoopingcough") 6 wk, 4 m, 6 m, 15 m, 4 yrs, 11 yrs	Bacteria	Contact with an infected person via aerosolized droplets	Violent coughing spells which can last for months	Pneumonia (1 in 8), seizures, brain damage, death (1 in 1500)	Tdap: Severe allergic reaction in fewer than 1 per every 1 million
<b>H. influenza B</b> 6 wk, 4 m, 6 m, 15 m	Bacteria	Contact with an infected person via droplets or direct contact	May be no signs or symptoms in mild cases	Meningitis; pneumonia; infections of the blood, joints, or covering of the heart; brain damage; deafness; death	DTaP-IPV-Hib, Hib  No significant side effects
<b>Polio</b> 6 wk, 4 m, 6 m, 4 yrs	Virus	Contact with an infected person or his urine or feces	May have a cold-like illness or no signs or symptoms	Paralysis, respiratory failure and death	DTaP-IPV-Hib, DTaP-IPV, IPV  No significant side effects
<b>Pneumococcus</b> 6 wk, 4 m, 6 m, 12 m	Bacteria	Contact with an infected person probably via droplets	Fever, chills, cough, chest pain	Meningitis, blood infections, pneumonia, brain damage, deafness, death	PCV13, PS23  Low grade fever after vaccine in 10-30% of kids  The rate of significant side effects is too low to calculate
<b>Rotavirus</b> 6 wk, 4 m, 6 m	Virus	Direct or indirect contact with an infected person, presumed to be fecal-oral transmission	Severe diarrhea, vomiting, fever	Severe dehydration, multi-organ failure and death	Rotavirus  No significant side effects
<b>Influenza</b> (Including "H1N1") Annually in the fall/winter beginning at 6 m	Virus	Contact with an infected person or contaminated surfaces via droplets or direct contact	High fever, chills, severe muscle aches and headache	Severe pneumonia, multi-organ failure and death (~36,000 deaths per year in the US)	Nasal or injectable flu  <i>THE INJECTABLE VACCINE CANNOT CAUSE FLU/ILLNESS</i>  The rate of significant side effects is too low to calculate

<b>Measles</b> 1 yr, 4 yrs	Virus	Contact with an infected person via droplets or airborne spread	Fever, fine pinpoint rash, "pink eye"	Pneumonia (1 in 600), brain infections (1 in 1000), brain damage, multi-organ failure and death 2-3 per 1000)	MMR  Frequent local reaction, low incidence of a mild harmless rash 10-14 days after vaccine
<b>Mumps</b> 1 yr, 4 yrs	Virus	Contact with an infected person via respiratory secretions	Fever, swollen glands, swollen testicles	Meningitis (1 in 10), deafness (1 in 1500), miscarriage, sterility	Severe reaction 1 per 1 million
<b>Rubella</b> 1 yr, 4 yrs	Virus	Contact with an infected person via direct contact or droplets	Mild rash, swollen glands, mild illness	Blindness, deafness, heart defects or mental retardation of 1 in 4 babies born to women infected early in pregnancy.	No increased risk of autism in vaccinated kids
<b>Varicella ("Chicken pox")</b> 1 yr, 4 yrs	Virus	Contact with an infected person or contaminated surface via direct contact or airborne spread	Itchy bumpy rash that turn into scabs	Severe pneumonia, infection of the brain, birth defects, "flesh-eating" bacterial infections, death.  4 million cases, 11,000 hospitalizations and 100-150 deaths per year in the United States.	Varicella/Varivax  Low incidence of a few pox marks any time in the month following the vaccine, may be more extensive in kids with eczema  The rate of significant side effects is too low to calculate
<b>Hepatitis A</b> 15 m, 2 yrs	Virus	Contact with an infected person, eating or drinking contaminated food or water	Fever, jaundice, nausea, vomiting (30,000 new cases per year in the US)	Liver failure and death	HAV  The rate of significant side effects is too low to calculate
<b>Meningococcus</b> 11 yrs, 16 yrs	Bacteria	Contact with an infected person via droplets	Stiffneck, headache, fever, drowsiness	Fever, shock, coma, blood infections, loss of limbs, deafness, multi-organ failure and death (15-25% mortality in kids)	Menactra  The rate of significant side effects is too low to calculate
<b>Human Papilloma Virus</b> 3 doses given over 6 m at 11 yrs	Virus	Contact with an infected person (skin to skin)	Genital warts (20 million people are infected, with 6 million new cases per year in the US)	Cervical cancer, penile cancer, throat cancer (25,700 new cases of cancer per year in the US)	HPV  No significant side effects

*\*Full Vaccine Information Statements (also available at <http://www.cdc.gov/vaccines/pubs/VIS/>) will be provided to you in the information packets given at the first well child visit at which each vaccine is typically administered. This handout is intended as an abbreviated reference on the diseases your child will be protected from. This information has been compiled from data from Centers for Disease Control and Prevention, the American Academy of Pediatrics Committee on Infectious Diseases and the Vaccine Education Center at the Children's Hospital of Philadelphia (<http://www.chop.edu/service/vaccine-education-center/home.html>). The routine vaccine schedule and more information on immunizations can be found on our website [childrenshealthcaremedical.com](http://childrenshealthcaremedical.com).*