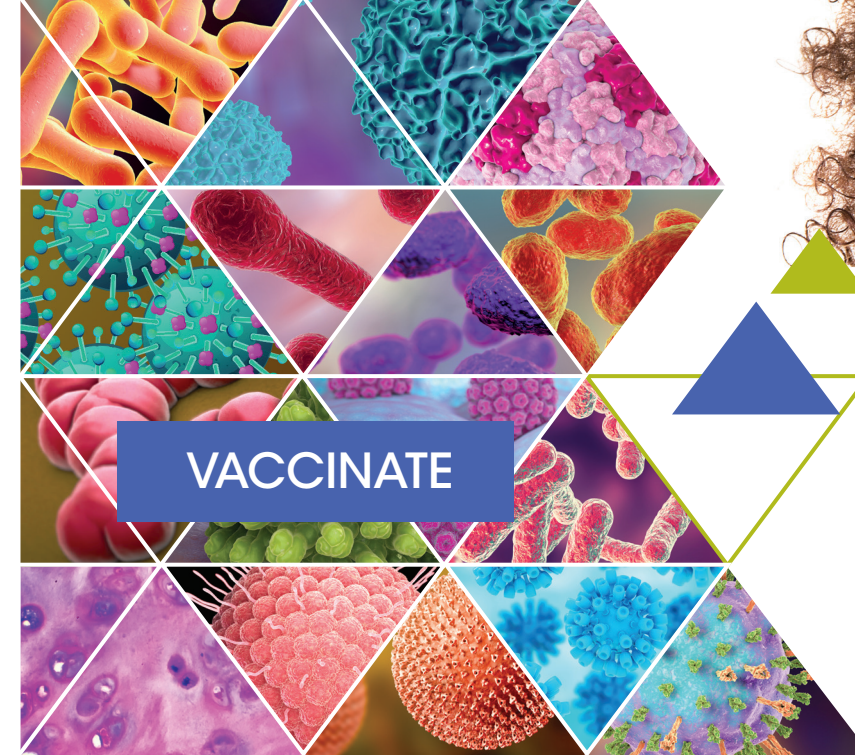




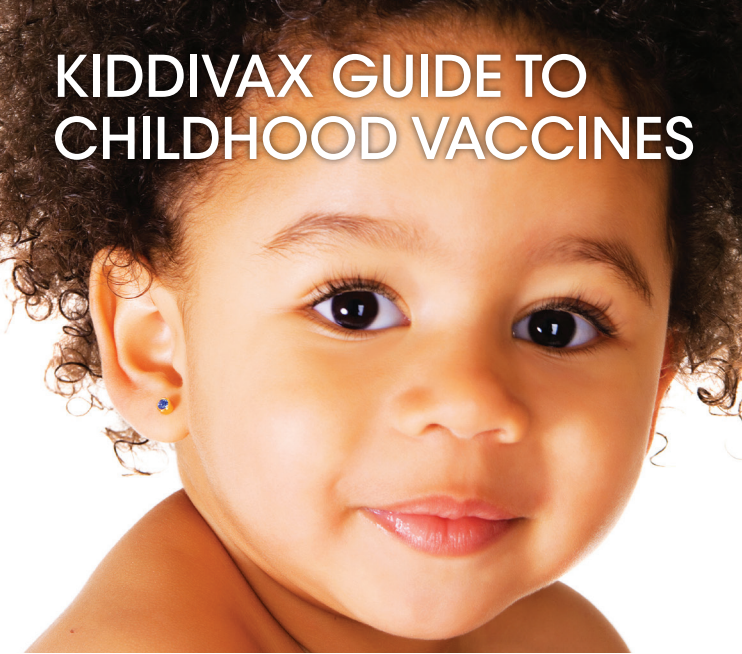
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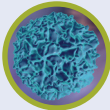


KIDDIVAX GUIDE TO CHILDHOOD VACCINES



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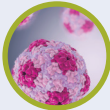
TABLE OF CONTENTS



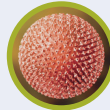
Poliomyelitis -
'Polio'



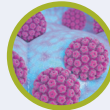
Diphtheria



Hepatitis A



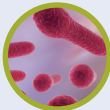
Measles



Human
Papillomavirus -
'HPV'



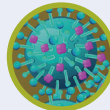
Varicella -
'Chickenpox'



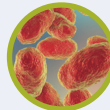
Tetanus -
'Lockjaw'



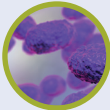
Hepatitis B



Influenza -
'Flu'



Haemophilus
Influenza
Type B - 'Hib'



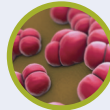
Pertussis -
'Whooping
Cough'



Rotavirus



Rubella -
'German
Measles'



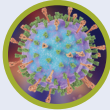
Meningococcal
Meningitis



Pneumococcal
Disease



Tuberculosis -
'TB'



Mumps

KIDDIVAX GUIDE TO CHILDHOOD VACCINES

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Globally, immunisation **saves 3 million people** (of all age groups) every year from diphtheria, tetanus, pertussis and measles – but more than 1.5 million people still die due to lack of access to vaccines.^{1a,b,c} pg 1

We believe in a world in which no one suffers or dies from a vaccine-preventable disease.

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Poliomyelitis – ‘Polio’

Viral infection; affecting the central nervous system; usually leads to paralysis;
caused by the polio virus^{2a} pg 297

How it spreads^{2b} pg 300 and 4a pg 3

The virus spreads from human faeces through improperly washed hands onto objects, food and water that come into contact with the mouth



Signs and Symptoms^{2c,d,e,f} pg 298

Asymptomatic

Low grade fever

Sore throat

Stiffness of the neck, back and/or legs

Severe muscle aches

Complications^{2g,h} pg 298 & i pg 299 and 4a pg 1

Paralysis

Aseptic meningitis (infection and inflammation of the brain and spinal cord)

Can lead to death

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Pneumococcal Disease

Bacterial infection; caused by the *Streptococcus pneumoniae*^{68a pg 1}

How it spreads^{69a pg 1}

Person to person through contact with bodily secretions (saliva and mucus)

Signs and Symptoms^{70a,b,c pg 1 & d pg 2}

Infection of the lungs

Fast breathing, cough, chest pain, fever and chills

Infection and inflammation of the brain and spinal cord^{4a pg 1}

Stiff neck, headache, confusion, pain when looking into bright light. In babies, it may cause poor eating or drinking, low alertness, and vomiting

Infection of the middle ear

Ear pain, red, swollen ear drum, fever, sleepiness

Complications^{70e pg 2}

Infection and inflammation of the brain and spinal cord^{4a pg 1}

Sinus and ear infections

Infection of the lungs

Infection of the blood



Varicella - 'Chickenpox'

Viral infection; highly contagious; caused by varicella-zoster virus^{5a pg 1}

How it spreads^{6a pg 1 and 7a pg 358}

Touching

Breathing in the virus particles from chickenpox blisters

Tiny droplets from air

Time between exposure to the virus and the development of signs and symptoms:^{8a pg 1} 10 - 21 days^{6b pg 1}

Signs and Symptoms^{9a pg 1}

Itchy, fluid-filled blisters all over body

Fever

Tiredness

Loss of appetite

Headache

Complications⁷

Infection of the lungs^{11a pg 1}

Infection and inflammation of the brain and spinal cord^{4a pg 1}

Bleeding problems

Infection of the blood^{12a pg 1}

Dehydration





Pertussis - 'Whooping Cough'

Bacterial infection; highly contagious; caused by *Bordetella pertussis*^{13a pg 1}

How it spreads^{14a pg 1}

Only spread from person to person, through sneezing or coughing

Time between exposure to the bacteria and the development of signs and symptoms:^{8a pg 1} 5 - 10 days^{15a pg 1}

Signs and Symptoms^{15b,c pg 1}

Slowed or stopped breathing (skin may turn blue)^{16a pg 1 and 17a pg 1 & b pg 2}

Coughing fits followed by a high-pitched "whoop"

Vomiting after coughing^{18a pg 1}

Many, rapid coughs^{19a pg 1}

Complications^{20a,b pg 1}

Babies and Children:¹¹ Infection of the lungs, slowed or stopped breathing, violent and uncontrolled shaking, brain disease^{11a pg 1 and 16a,b,c pg 1}

Teens and Adults:¹¹
Weight loss, loss of bladder control



Haemophilus Influenzae Type B - 'Hib'

Severe bacterial infection; caused by *Haemophilus influenzae* type B. The Infection is common in infants^{63a,b pg 119}

How it spreads^{63c pg 120}

Passed through the area between the nose and throat

Time between exposure to the bacteria and the development of signs and symptoms:^{8a pg 1} Variable^{63d pg 120 and 64a pg 1}

Signs and Symptoms^{63e pg 121}

Infection and inflammation of the brain and spinal cord^{4a pg 1}

Infection of the lungs^{11a pg 1}

Swelling in the throat that can block airflow^{65a pg 1}

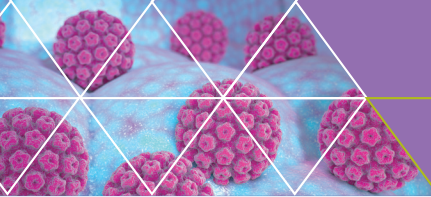
Swollen, sore joints^{66a pg 1}

Bacterial skin infection (red, painful swelling)^{67a pg 1}

Complications^{63f pg 121}

May lead to death





Human Papillomavirus - 'HPV'

Viral infection; caused by the Human papillomavirus^{60a pg 1}

How it spreads^{60b pg 1}

Sexual contact

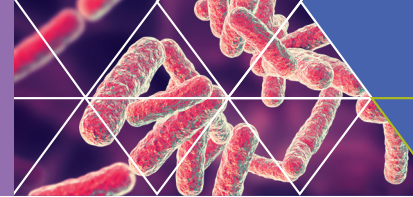
Signs and Symptoms^{61b pg 1}

No specific symptoms of disease^{62a pg 1}

Complications^{60c pg 1 and 61c pg 1}

Genital warts
Cervical cancer
Anal cancer
Penile cancer
Vaginal cancer

Time between exposure to the virus and the development of signs and symptoms:^{8a pg 1} Variable^{61a pg 1}



Tuberculosis - 'TB'

Bacterial infection; caused by *Mycobacterium tuberculosis*^{21a pg 1}

How it spreads^{22a,b pg 1}

TB of the lungs: through the air (e.g. speaking or coughing)
Can be infectious

Signs and Symptoms^{23a pg 2}

Cough
Reduced playfulness, weakness or lethargy, failure to thrive
Weight loss
Fever and/or night sweats

Complications^{23b pg 2 and 24a pg 3}

Can spread through the whole body, which can lead to other organs being infected^{25a pg 1}





Diphtheria

Bacterial infection; caused by *Corynebacterium diphtheriae*; can cause a thick whitish covering at the back of the throat^{26a pg 1 & b pg 2}

How it spreads^{26c pg 2}

Spread via respiratory droplets through coughing, sneezing

Signs and Symptoms^{28a pg 1}

Weakness
Sore throat
Fever
Swollen glands in the neck

Complications^{29a pg 1}

Blocking of the airway
Damage to the heart muscle
Nerve damage
Paralysis
Kidney failure
Can lead to death



Time between exposure to the bacteria and the development of signs and symptoms:^{8a pg 1} 2 - 5 days^{27a pg 108}



Meningococcal Meningitis

Bacterial infection; caused by *Neisseria meningitidis*^{55a pg 1}

How it spreads^{55b pg 1}

Spread through exchanging saliva during close contact (kissing or coughing), or lengthy contact like living in the same space (family or roommates)

Time between exposure to the bacteria and the development of signs and symptoms:^{8a pg 1} 3 - 4 days^{56a pg 232}

Signs and Symptoms^{57a,b,c pg 1}

Sudden onset of fever, headache, stiff neck, nausea, vomiting, increased sensitivity to light, altered mental status (confusion)

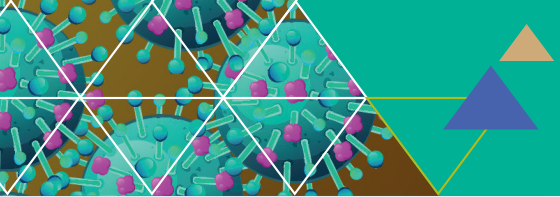
Newborns and infants:

May appear to be slow or inactive, irritable, vomiting, feeding poorly

Complications^{58a pg 1 and 59a pg 3}

Nervous system problems, seizures, brain damage, learning disabilities, amputation of limbs, hearing loss





Influenza – ‘Flu’

Viral infection that is contagious; caused by influenza virus^{53a pg 1}

How it spreads^{53b pg 1}

Coughing
Sneezing
Talking

Signs and Symptoms^{53d pg 1}

Feeling feverish/chills, cough, runny or stuffy nose, muscle or body aches, headache, tiredness

Common in children:
Vomiting, diarrhoea

Complications^{54a pg 1}

Infection of the lungs^{11a pg 1}
Inflammation of the heart
Inflammation of the brain
Ear infections

Time between exposure to the virus and the development of signs and symptoms:^{8a pg 1} 1 - 4 days^{53c pg 1}



Tetanus – ‘Lockjaw’

Bacterial infection; caused by *Clostridium tetani* and can cause painful muscle contractions^{30a pg 1}

How it spreads^{31a,b pg 1}

Bacteria are found in soil, dust and manure and enter the body through cuts or puncture wounds

Time between exposure to the bacteria and the development of signs and symptoms:^{8a pg 1} 3 - 21 days^{31c pg 1}

Signs and Symptoms^{30b pg 1 & 32a pg 1}

Headache
Jaw cramping
Muscle spasms - often in the stomach
Muscle stiffness/pain
Trouble swallowing
Seizures (jerking or staring)
Fever and sweating
High blood pressure
Fast heart rate

Complications^{32a,b pg 1}

Uncontrolled/involuntary tightening of the vocal cords
Broken bones
Infection of the lungs
Breathing difficulty
Can lead to death



Rotavirus

Measles

Viral infection; contagious and can cause gastroenteritis^{33a pg 2 & b pg 1}

How it spreads^{34 a,b pg 1 and 35a pg 1 and 36 a,b pg 1}

Children can spread it before and after they have diarrhoea
The virus spreads from human faeces through improperly washed hands onto objects, food and water that come into contact with the mouth^{2b pg 300 and 3a pg 3}

Time between exposure to the virus and the development of signs and symptoms:^{8a pg 1} 2 days^{36c pg 1}

Signs and Symptoms^{36d,e,f pg 1}

Severe watery diarrhoea, vomiting, fever, abdominal pain, loss of appetite, dehydration
Signs of dehydration: decrease in urine, dry mouth and throat, dizziness when standing up. A child may cry, with few or no tears, be unusually fussy or sleepy

Complications^{37a pg 2 & b pg 3}

Severe diarrhoea
Dehydration
Kidney and liver abnormalities



Viral infection; acute and can cause respiratory illness^{50a pg 1}

How it spreads^{50b pg 2}

Spread by droplets or by airborne means (coughing, breathing or sneezing) of infected person
Remains infectious in the air for up to 2 hours after an infected person leaves the area

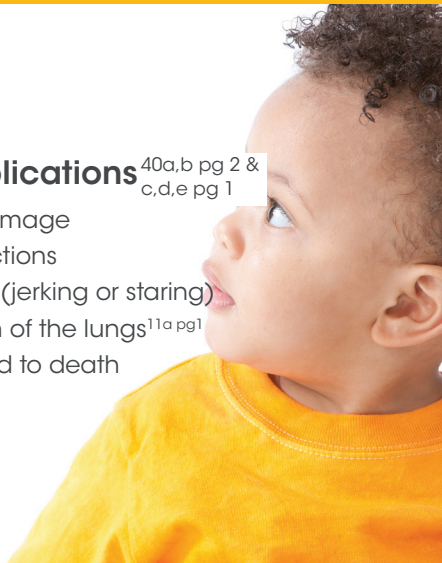
Time between exposure to the virus and the development of signs and symptoms:^{CDC Incubation a pg 1} 14 days^{50c pg 1}

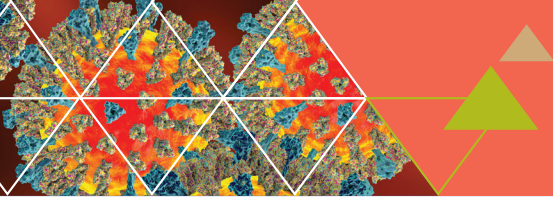
Signs and Symptoms^{50d,e pg 1}

Fever
General feeling of being ill
Cough
Rash spreading from the head to abdomen, to lower extremities
Tiny white spots inside the mouth^{51a pg 1}

Complications^{40a,b pg 2 & c,d,e pg 1}

Brain damage
Ear infections
Seizures (jerking or staring)
Infection of the lungs^{11a pg1}
May lead to death





Rubella – ‘German Measles’

Viral infection that is contagious^{46a pg 325 & b,c pg 329}

How it spreads^{47a pg 1}

Coughing or sneezing

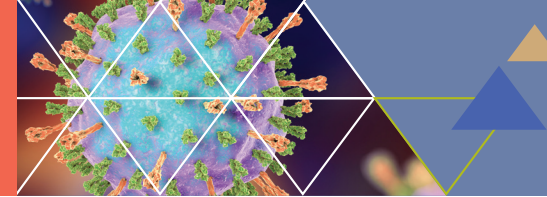
Time between exposure to the virus and the development of signs and symptoms:^{8a pg 1} 12 - 23 days^{46d pg 325}

Signs and Symptoms^{48a pg 1}

Low grade fever
Headache
Mild pink eye
General discomfort
Swollen and enlarged lymph nodes
Cough
Runny nose

Complications^{49a,b pg 1}

Brain infections
Bleeding problems
Serious birth defects can occur if a woman is infected during the first trimester of pregnancy



Mumps

Viral infection of the salivary glands that is contagious^{38a,b pg 1}

How it spreads^{39a pg 1}

Infection spreads through saliva or mucus from the mouth, nose or throat
Can spread through: coughing, sneezing, sharing eating utensils or items with infected person

Time between exposure to the virus and the development of signs and symptoms:^{8a pg 1} 12 - 25 days^{40a pg 1}

Signs and Symptoms^{40b pg 1}

Fever
Headache
Muscle aches
Tiredness
Loss of appetite
Swollen and tender salivary glands

Complications^{41b pg 1}

Inflammation of the brain
Infection and inflammation of the brain and spinal cord^{4a pg 1}
Inflammation of the ovaries and/or inflammation of the breast tissue
Deafness





Hepatitis A

Viral infection of the liver caused by Hepatitis A^{42a pg 1}

How it spreads^{43a pg 3}

The virus spreads from human faeces through improperly washed hands onto objects, food and water that come into contact with the mouth² and CDC Oral faecal a pg 3 or through contaminated food or water³³

Time between exposure to the virus and the development of signs and symptoms:^{8a pg 1} 15 - 50 days^{43b pg 4}

Signs and Symptoms^{42b pg 1 & 43c pg 4}

Fever, fatigue, loss of appetite, nausea, vomiting, abdominal pain, dark urine, clay-coloured stools, joint pain, jaundice (yellowing of the skin and eyes)^{44a pg 1}

Complications^{43d pg 2}

In rare cases, can cause:
Liver failure
Death



Hepatitis B

Viral infection of the liver caused by Hepatitis B virus^{45a pg 1 & b pg 2}

How it spreads^{45b pg 1}

Transmitted from person to person through body fluids
From infected mother to baby during birth
Through blood, blood products or contaminated materials

Time between exposure to the virus and the development of signs and symptoms:^{8a pg 1} An average of 90 days^{45c pg 1}

Signs and Symptoms^{45d pg 1}

Fever, fatigue, loss of appetite, nausea, vomiting, abdominal pain, dark urine, clay-coloured stools, joint pain, jaundice (yellowing of the skin and eyes)^{44a pg 1}

Complications^{45e pg 1}

Permanent liver damage
Cancer of the liver

