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## Chickenpox in Children

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Chickenpox causes spots (a rash) and can make a child feel generally unwell. Treatment aims to ease symptoms until the illness goes. Full recovery is usual in children aged under 12 years. Serious complications are rare but are more likely to occur in children with a poor immune system, such as those on chemotherapy.

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### What is chickenpox?

Chickenpox is an infection caused by the varicella-zoster virus. Most children have chickenpox at some stage. Most commonly, children get chickenpox before the age of 10 years. The immune system makes proteins called **antibodies** during the infection. These fight the virus and then provide lifelong protection against it (immunity). Therefore, it is uncommon to have more than one bout of chickenpox in your lifetime.



### Chickenpox symptoms

- **High temperature (fever), aches and headache** often start a day or so before a rash appears.
- **Spots (rash)**. Spots appear in crops. They develop into small blisters and are itchy. They can be anywhere on the body. Several crops may develop over several days. Some children may be covered in spots; others have only a few or even none. The rash starts off looking like red spots, which then blister, and then scab over.
- **Loss of appetite or feeding problems.**



Some children feel quite unwell for a few days. Others appear only mildly ill. Most are much better within a week. The blisters dry up and scab. They gradually fade but may take up to two weeks to go completely.

## What are the possible complications?

Most of the time, children with chickenpox recover fully and have no complications. Uncommonly, one or more of the following complications can occur.

- The spots do not usually scar unless they are badly scratched.
- Some spots become infected with germs (bacteria) in some cases. This is the most common complication in children. If this occurs, the surrounding skin becomes red and sore. Antibiotics in the form of creams or medicine may then be needed.
- **Inflammation of the lung (pneumonia)** and **inflammation of the brain (encephalitis)** are rare complications.
- Vary rarely, other serious complications develop. For example:
  - Reye's syndrome. (a very rare condition with brain and liver problems).
  - Inflammation of the heart muscle (myocarditis).
  - **Kidney inflammation (glomerulonephritis)**.
  - **Appendicitis**.
  - Ataxia (problems co-ordinating movements).
  - **Inflammation of the pancreas (pancreatitis)**.
  - **Henoch-Schönlein purpura** (a condition that can affect the kidneys).
  - **Inflammation of the testes (orchitis)**.
  - Inflammation of the joints (arthritis).
  - Inflammation of various parts of the eye.

Therefore, although serious complications are rare, it is best to be watchful. See a doctor if your child develops any worrying symptoms that you are unsure about such as:

- Breathing problems.
- Weakness such as a child becoming wobbly on his/her feet.
- Drowsiness.
- Fits (convulsions).
- Pains or headaches which become worse despite paracetamol.
- Being unable to take fluids, due to a severe rash in the mouth.
- A severe rash, or a rash which bruises or bleeds into the skin (haemorrhagic rash).
- Becoming generally more and more unwell.

### Shingles

Shingles is caused by the same virus that causes chickenpox and is a very delayed complication of chickenpox. Anyone who has had chickenpox in the past may develop shingles. Shingles is an infection of a nerve and the area of skin supplied by the nerve. It causes a rash and pain in a local band-like area along the affected nerve. About 1 in 5 people have shingles at some time in their lives. It can occur at any age, but it is most common in people over the age of 50.

The reason why shingles may occur is because the virus does not completely go after you have chickenpox. Some virus particles remain inactive in the nerve roots next to your spinal cord. They do no harm there and cause no symptoms. For reasons that are not clear, the virus may begin to multiply again (reactivate). This is often years later. The reactivated virus travels along the nerve to the skin to cause shingles. [See the separate leaflet called Shingles \(Herpes Zoster\) for details.](#)

**Note:** you can catch chickenpox from being exposed to a person with shingles if you have not had chickenpox yourself. However, you cannot catch shingles from a person with chickenpox, or catch shingles from a person with shingles.

## What is the treatment for chickenpox?

### For most children

Treatment is mainly aimed at easing symptoms and trying to make your child as comfortable as possible whilst the immune system deals with the virus.

- **Advice on dealing with a high temperature (fever)** is detailed below.
- **A soothing cream (emollient)** may help the itch. Calamine lotion is the one most used, although it is not known how effective it is.
- **A sedating antihistamine** (in a tablet or liquid medicine) may help with sleep if itch is a problem. This can be used in children over 1 year old. Give a dose at bedtime. You can buy these at pharmacies or get them on prescription. **Chlorphenamine (Piriton®)** is the one most used. It can also be helpful for itch during the daytime but may cause some sleepiness as a side-effect.
- **Keep fingernails cut short** to stop deep scratching.
- **Dress children comfortably** so they are not cold or overheated. Use cool smooth fabrics such as cotton.

**Dealing with a fever.** A fever commonly occurs with chickenpox, and may make your child feel uncomfortable and irritable. The following are things that you can do that may bring the temperature down and make your child feel more comfortable:

- **You can give paracetamol** to lower a temperature. You can buy **paracetamol** in liquid form, or as melt-in-the-mouth tablets, for children. It comes in various brand names. The dose for each age is given with the medicine packet.

**Note:** paracetamol does not treat the cause of the fever. It merely helps to ease discomfort. It also eases headaches, and aches and pains. You do not need to use paracetamol if your child is comfortable and not distressed by the fever, aches or pains.

**Note:** ibuprofen has been used with paracetamol in the past. The National Institute for Health and Care Excellence (NICE) has recommended that ibuprofen no longer be used for chickenpox. This is because some studies suggested that there may be an association with more severe skin reactions if ibuprofen is used for chickenpox. While more evidence is awaited, the advice is to avoid ibuprofen in this situation.

- **Take extra layers of clothes off your child** if the room is normal room temperature. It is wrong to wrap up a feverish child. The aim is to prevent overheating or shivering.
- **Give lots to drink.** This helps to prevent a lack of fluid in the body (dehydration). You might find that a child is more willing to have a good drink if they are not so irritable. So, if they are not keen to drink, it may help to give some paracetamol first. Then, try the child with drinks half an hour or so later when his/her temperature is likely to have come down.

Do not cold-sponge a child who has a fever. This used to be popular, but it is now not advised. This is because the blood vessels under the skin become narrower (constrict) if the water is too cold. This reduces heat loss and can trap heat in deeper parts of the body. The child may then get worse. Many children also find cold-sponging uncomfortable.

Some people use a fan to cool a child. Again, this may not be a good idea if the fanned air is too cold. However, a gentle flow of air in a room which is room temperature may be helpful. Perhaps just open the window or use a fan on the other side of the room to keep the air circulating.

### For special at-risk groups

Some children have a higher risk of developing complications from chickenpox. In addition to the above treatments, they may need extra treatment such as **aciclovir** (an antiviral medicine) or vaccination. If your child has not already had chickenpox and is in one in the following groups, you should see a doctor urgently if they have contact with chickenpox, or have symptoms of it.

- Children (babies) less than 1 month old.
- Children with a poor immune system. For example, children with leukaemia, immune diseases or HIV/AIDS.
- Children taking certain medication such as steroids, immune-suppressing medication or chemotherapy.
- Children with severe heart or lung disease.
- Children with severe skin conditions.

Antiviral medication is also used for adults and teenagers who develop chickenpox, as they too have a higher risk of complications. However, antiviral medication is not normally advised for healthy children aged over 1 month and under 12 years who develop chickenpox.

## Is chickenpox infectious?

A person with chickenpox is very infectious. The virus spreads in the air from person to person. For example, if you have not already had chickenpox, you stand a good chance of catching it if:

- You are in the same room as someone with chickenpox for more than 15 minutes; **or**
- You have any face-to-face contact with someone with chickenpox, such as a conversation.

Nine in ten people who have not had chickenpox would catch it after being exposed in this way.

It takes between 7 and 21 days (most commonly 10-14 days) to develop symptoms after catching the virus (the incubation period).

## Protecting others

A person with chickenpox is infectious from two days before the spots first appear until they have all crusted over (commonly about five days after onset of the rash). A child with chickenpox should stay off school or nursery for five days from the onset of the rash and until all the lesions have crusted. Also, whilst infectious, they should keep away from at-risk people who may develop a severe illness if they get chickenpox. These include:

- Pregnant women who have not had chickenpox in the past. Chickenpox can be severe and cause complications during pregnancy. **See the separate leaflet called Chickenpox Contact in Pregnancy for more information.**
- People with a poorly functioning immune system. For example, people with **leukaemia**, with **HIV/AIDS**, on **steroid medication**, or who are having **chemotherapy**.
- The at-risk children listed earlier.

Healthy adults who have not had chickenpox may also want to avoid catching it, as the illness tends to be worse in adults.

**Note:** people with chickenpox should not travel by air until all the spots have crusted over.

## Are you a healthcare worker?

Healthcare workers come into contact with people with poor immune systems, pregnant women and newborn babies. They should be aware that if they catch chickenpox, they can be infectious for two days before a rash or illness appears, and be a risk to patients. So, if you are a healthcare worker and come into contact with someone who has chickenpox (or who develops it within the following two days), then:

- If you have been immunised against chickenpox, or have definitely had chickenpox in the past, you are likely to be immune. You should continue working but contact your occupational health department if you feel unwell or develop a rash.
- If you are uncertain about whether you have had chickenpox or been immunised, you should have a test to see if you are immune. If you are not immune you should:
  - Avoid contact with high-risk patients for 8-21 days after the contact.
  - Report to occupational health before patient contact if you feel unwell or develop a high temperature (fever) or rash.
  - Get immunised against the chickenpox virus (the varicella-zoster virus).

## Is there a vaccine against chickenpox?

Yes, there is a vaccine that protects against the virus that causes chickenpox. It is part of the routine childhood immunisation programme in certain countries such as the USA, Canada and Australia. Currently, there are no plans to make immunisation against chickenpox routine for children in the UK. In the UK, the vaccine is offered by the NHS to certain groups. For example, healthcare workers who are not immune to chickenpox. Also, to people who are not immune to chickenpox and who are in close contact with people with a poor immune system. For example, brothers and sisters of children on chemotherapy.

## Should I let my child catch chickenpox?

Some parents encourage their children to mix with others who have chickenpox in order to catch it.

### Some arguments for this

- Chickenpox is usually a milder illness in a child than in an adult.
- The risk of serious complications is higher in adults. In particular, chickenpox during pregnancy can cause serious complications to both mother and baby.
- Most people get chickenpox at some stage. As the risks are fewer if you have it as a child, it may be better to get it over with.

### Some arguments against this

- "I could not willingly let my child develop an illness."
- Although rare, some children do have serious complications.

Different parents have different views on this issue. And remember, children who develop chickenpox spots (the rash) today will have been just as infectious over the previous two days when they were well, but were incubating the virus.

**Also note:** if someone in the family or home is temporarily at high risk of complications (listed earlier - pregnant women, etc) then it is best to put off deliberately catching it.

## Further reading & references

- [Guidance on infection control in schools and other childcare settings](#); Public Health England (September 2017)
- [Feverish illness in children - Assessment and initial management in children younger than 5 years](#); NICE Guideline (updated August 2017)
- [Immunisation against infectious disease - the Green Book \(latest edition\)](#); Public Health England
- [Chickenpox](#); NICE CKS, October 2016 (UK access only)
- [Cohen J, Breuer J; Chickenpox treatment. BMJ Clin Evid. 2015 Jun 15;2015. pii: 0912.](#)

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