

# MEDfacts

An Educational Health Series From National Jewish Health®



## CHILDREN AND CROUP

### What Is Croup?

Croup is a viral infection that usually affects children between the ages of three months to six years. It is more common in boys than girls. Croup often follows a cold, although croup may begin without cold symptoms. This illness is most often seen in the fall and winter. Croup may reoccur during childhood, but attacks tend to disappear as the child grows.

Another condition called recurrent or spasmodic croup may not be caused by infection and is often managed by pediatric lung specialists. Children with this condition often present with numerous episodes of croup-like cough which are short-lived and not associated with other signs of respiratory infection. Children typically outgrow these symptoms but medical evaluation may be important to determine the correct diagnosis.

Common symptoms of croup include a barking sounding harsh cough, a hoarse voice and stridor (a harsh sound from the windpipe while breathing in). These symptoms are caused by swelling in the throat and windpipe (trachea). Symptoms are worse in the evening and at night. Croup may last from several days to a week or more.

### Treatment of Croup At Home

In most cases, croup can be treated at home. Treatment with cool mist may help symptoms. Cool mist therapy may be delivered by placing a vaporizer or humidifier in the child's bedroom. If you use a vaporizer or humidifier remember to clean it following the manufacturers instructions. Another option may be to run the shower or tub water in the bathroom with the door closed for fifteen minutes or so. Then sit in the bathroom with your child. These techniques create an environment high in humidity to help symptoms.

In addition to cool mist therapy, the child should receive adequate rest and drink plenty of fluids. Because crying can increase croup

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symptoms, care should be taken to comfort and soothe the child.

Finally, it is very important to closely monitor the child with croup. Talk with your doctor if your child has symptoms of croup to see if your child should be seen. Parents should be aware of symptoms of worsening croup.

### Treatment of Croup at the Doctor's Office or Hospital

There are a number of medicines that may be used when a child is seen in the doctor's office or hospital. They include:

- **Corticosteroids** can decrease swelling in the throat and windpipe to improve symptoms of croup. Corticosteroids may be given as a pill, liquid or as a shot. They may also be given as an inhaled treatment.
- **Racemic epinephrine** can also decrease swelling briefly. Racemic epinephrine is given in an inhaled treatment.
- **Antibiotics** may not be used, because croup is often a viral infection. If your doctor is concerned about a bacterial cause, antibiotics may be prescribed.

In addition to medicines, your child can be monitored closely in the doctor's office or the hospital. Doctors and nurses can ensure the child is breathing well and receiving enough oxygen and fluids. This is important in more severe cases of croup.

The HIB vaccine is given routinely. This vaccine is helpful in preventing a number of illnesses. One illness is epiglottitis, which is a severe, often lethal form of croup. Inform your doctor if your child has not received this vaccine and has symptoms like those described above.

### Danger Signs

These could indicate epiglottitis or bacterial tracheitis, true medical emergencies, or impending respiratory failure or a combination of these. Any of these complications requires immediate medical evaluation and may require treatment by a doctor skilled in pediatric intubation (that is, a pediatric anesthesiologist, ENT specialist or pulmonologist), preferably in an experienced pediatric emergency center.

- Very high fever (103-104 degrees F or higher)
- Drooling (unable to swallow)
- Extremely labored breathing
- Cyanosis (blue color) or pallor
- Lethargy or loss of consciousness

### National Jewish Health and Croup

National Jewish Health is a recognized leader in the care and treatment of children with respiratory illnesses. The doctors and nurses at National Jewish Health realize that croup can be frightening for the entire family and have different levels of care that can help you manage this illness. Nurses at LUNG LINE®, 1-800-222-LUNG can answer your questions about croup and other respiratory illnesses.

Note: This information is provided to you as an educational service. It is not intended to substitute for consulting with your own physician ©2001, 2005, 2012 National Jewish Health PTE.031