

September 26, 2011

Dear Parent/Guardian:

The Albany County Department of Health has informed us that an individual at our school has been diagnosed with pertussis (Whooping Cough). This individual has sought and received the appropriate medical care, and all close contacts have been identified and treated. Even though your child's immunizations may be up to date, he/she may acquire pertussis as immunity may wane over time. Because your child may have been exposed to pertussis through interaction with the above individual, this letter is being sent to inform you about the signs and symptoms of this disease.

Pertussis is a contagious disease that is spread through the air by cough. Usually, pertussis begins with cold symptoms and with a cough that worsens over 1 to 2 weeks. If fever is present, it may be slight. People with pertussis may experience a series of coughs that may be followed by vomiting or difficulty catching their breath. The cough is often worse at night and is often not relieved with anti-cough medications.

If your child develops a persistent cough (present for a week or more), he/she should be seen by a health care provider and should be tested for pertussis (this test involves swabbing the nasal passageway to identify the pertussis-causing bacteria). The health care provider should be informed that pertussis has been diagnosed in an individual that your child has had contact with. If a health care provider determines that your child has pertussis, then treatment with antibiotics is recommended to help your child get well faster and to lower the risk of further spreading the disease to others and he/she cannot return to school/work/extra curricular activities until 5 days of antibiotic treatment has been completed.

As stated above, pertussis can occur in those who have received childhood vaccination for this condition. In fact, from 1980 the number of cases reported annually in the US has increased, with adolescents and adults accounting for a substantial percentage of reported cases. In the fall of 2005, the Advisory Committee on Immunization Practice and the American Academy of Pediatrics issued recommendations for pertussis revaccination of children and adolescents aged 11 to 18. If you or your child falls into this age group, you may contact your primary care provider to determine whether you or your child should receive this vaccination.

Enclosed is a pertussis fact sheet for your information.

If you have any questions or concerns, you may contact your child's health care provider or the Albany County Department of Health at 447-4640.

Sincerely,



David E. Wetzel  
Principal

## **Pertussis (whooping cough)**

Last Reviewed: October 2010

- Tos ferina - Medline Plus Información de Salud para Usted
- Versión en español

### **What is pertussis?**

Pertussis, or whooping cough, is a highly contagious bacterial infection that causes an uncontrollable, violent cough lasting several weeks or even months. It is caused by a bacterium that is found in the mouth, nose and throat of an infected person. Pertussis may begin with cold-like symptoms or a dry cough that progress to episodes of severe coughing.

### **Who gets pertussis?**

Pertussis can occur at any age. Children who are too young to be fully vaccinated and those who have not yet completed the primary vaccination series are at highest risk for severe illness. Since the 1980s, the number of reported pertussis cases has gradually increased in the United States. In 2005, over 25,000 cases of pertussis cases were reported in the United States, the highest number of reported cases since 1959. Approximately 60 percent of the cases were in adolescents and adults and may be a result of decreasing immunity in this population.

### **How is pertussis spread?**

Pertussis is primarily spread from person to person by direct contact with mucus or droplets from the nose and throat of infected individuals. Frequently, older siblings who may be harboring the bacteria in their nose and throat can bring the disease home and infect an infant in the household.

### **What are the symptoms of pertussis?**

Pertussis begins as a mild upper respiratory infection. Initially, symptoms resemble those of a common cold, including sneezing, runny nose, low-grade fever and a mild cough. Within two weeks, the cough becomes more severe and is characterized by episodes of numerous rapid coughs followed by a crowing or high pitched whoop. A thick, clear mucous may be discharged from the nose. These episodes may recur for one to two months, and are more frequent at night. Older people or partially immunized children generally have milder symptoms.

### **How soon after infection do symptoms appear?**

The incubation period is usually seven to ten days with a range of four to 21 days and rarely may be as long as 42 days.

### **When and for how long is a person able to spread pertussis?**

If untreated, a person can transmit pertussis from onset of symptoms to three weeks after the onset of coughing episodes. The period of communicability is reduced to five days after treatment with antibiotics.

### **What are the complications associated with pertussis?**

Major complications of pertussis are more common among infants and young children and may include pneumonia, middle ear infection, loss of appetite, sleep disturbance, syncope (temporary loss of consciousness), dehydration, seizures, encephalopathy (a disorder of the brain), apneic episodes (brief delay in breathing) and death.

### **What is the treatment for pertussis?**

The recommended antibiotics for the treatment and postexposure prevention of pertussis include azithromycin (Zithromax), erythromycin and clarithromycin (Biaxin). Alternately, trimethoprim-sulfamethoxazole (Bactrim) can be used.

## Does past infection with pertussis make a person immune?

Neither vaccination nor natural infection with pertussis guarantees lifelong protective immunity against pertussis. Since immunity decreases after five to ten years from the last pertussis vaccine dose, older children, adolescents and adults are at risk of becoming infected with pertussis and need vaccination.

## What is the vaccine for pertussis?

### Infants and Children

The childhood vaccine for pertussis is usually given in combination with diphtheria and tetanus. Immunization authorities recommend that DTaP (diphtheria, tetanus, acellular pertussis) vaccine be given at two, four, and six and 15 to 18 months of age and between four and six years of age.

### Pre-teens and Adolescents

In 2005, a new vaccine was approved as a single booster vaccination for adolescents and adults called Tdap (tetanus, diphtheria, and acellular pertussis).

The preferred age for routine vaccination with Tdap is 11 or 12 years old. Adolescents, aged 11 through 18 should receive a single dose of Tdap instead of Td (tetanus, diphtheria) for booster immunization against tetanus, diphtheria, and pertussis if they have completed the recommended childhood DTP/DTaP vaccination series.

### Adults

For adults who are 19 through 64 years of age and have not previously received a dose of Tdap, a single dose of Tdap should replace a single dose of Td for booster immunization if the most recent tetanus toxoid-containing vaccine was received at least ten years earlier.

Adults in close contact with an infant aged under 12 months who have not previously received Tdap should receive a dose of Tdap; an interval as short as two years since the most recent Td is suggested.

Healthcare personnel in hospitals and ambulatory care settings with direct patient contact who have not previously received Tdap should receive a dose of Tdap; an interval as short as two years since the most recent Td is recommended.

In New York State, pertussis vaccine is required of all children born after 1/1/2005 who will be enrolled in pre-kindergarten programs and schools. Tdap vaccine is required for children born on or after 1/1/1994 and enrolling in the sixth grade.

## What can be done to prevent the spread of pertussis?

The single most effective control measure is maintaining the highest possible level of immunization in the community. Treatment with appropriate antibiotics, such as Zithromax, will shorten the time a person can spread pertussis to five days after the beginning of treatment. People who have or may have pertussis should stay away from young children and infants until properly treated. Treatment of people who are close contacts of pertussis cases is also an important part of prevention.

## What is parapertussis?

Parapertussis is a bacterial illness that is similar to pertussis (whooping cough) but is not as common and generally causes less severe symptoms. Up to 40 percent of all cases of parapertussis will present with no symptoms. Very young infants (less than six months of age) may have a more severe course of parapertussis than older persons. Parapertussis is spread through the air in droplets produced during coughing and sneezing. A person can be infected with parapertussis and pertussis at the same time. Parapertussis can be distinguished from pertussis by certain laboratory tests. Antibiotic treatment should be started as soon as parapertussis is suspected. All infants less than six months of age should receive antibiotics as a preventive measure if they have been in contact with a person who has parapertussis.