



Diphtheria

What is Diphtheria?

Diphtheria is a serious disease that is caused by germs that infect the nose, throat or skin. It can cause serious problems with breathing and can also cause heart failure and nerve damage. Diphtheria has become a rare disease because of children's routine immunizations.

How is it spread?

Diphtheria is passed to others through coughing and sneezing or by contact with fluid from skin lesions of an infected person. In untreated people, diphtheria can be present in discharge from the nose and throat and from eye and skin lesions for 2 to 4 weeks. The bacteria can be passed through very close contact with people who have the germs in their nose, throat or on their skin and who have travelled to areas where diphtheria is more commonly seen. Rarely fomites and raw milk or milk products can serve as a source for transmission.

What are the symptoms?

Signs and symptoms of diphtheria may include:

- Sore throat and hoarseness
- Painful swallowing
- Swollen glands in your neck
- A thick, gray membrane covering the throat and tonsils
- Difficulty breathing or rapid breathing
- Nasal discharge
- Fever and chills

Diphtheria can also affect the skin, resulting in ulcers covered by a gray membrane. Symptoms typically appear two to five days after someone becomes infected. People may experience a mild case of the illness or have no signs or symptoms of the disease. These people are said to be 'carriers' of the disease as they may spread the bacteria without knowing they are sick.

How is Diphtheria diagnosed?

Diphtheria may be suspected in an individual who has a sore throat with a gray membrane covering the tonsils and throat. Diagnosis of diphtheria is

done by taking a sample of the gray membrane from the person's throat with a swab and having the sample grown (cultured) in a laboratory. Doctors can also take a sample of tissue from an infected wound and have it tested in a laboratory, to check for the type of diphtheria that affects the skin (cutaneous diphtheria).

What is the treatment for Diphtheria?

Diphtheria is a serious illness requiring immediate and aggressive treatment with these medications:

- **Antitoxin**
After confirmation that a person has diphtheria, the infected person receives a special antitoxin. The antitoxin neutralizes the diphtheria toxin already circulating in the body. Doctors may perform skin allergy tests to make sure that the infected person doesn't have an allergy to the antitoxin. People who are allergic must first be desensitized to the antitoxin. Doctors accomplish this by initially giving small doses of the antitoxin and then gradually increasing the dosage.
- **Antibiotics**
Diphtheria is also treated with antibiotics. Antibiotics help kill bacteria in the body, clearing up infections. Antibiotics reduce to just a few days the length of time that a person with diphtheria is contagious.

Children and adults who have diphtheria often need to be in the hospital for treatment. They may be isolated in an intensive care unit because diphtheria can spread easily to anyone not immunized against the disease.

Call the Communicable Disease Team: ext. 8809



Tel: 721-7520
Toll free: 1-877-721-7520
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Your Health Connection

How do I protect myself and others?

Diphtheria is not only treatable but also preventable with a vaccine. The diphtheria vaccine is usually combined with vaccines for tetanus and whooping cough (pertussis). The three-in-one vaccine is known as the diphtheria, tetanus and pertussis, or DTaP, vaccine. The diphtheria, tetanus and pertussis vaccine is part of the routine childhood immunizations and is required for all school aged children upon entry to school. The vaccine consists of a series of five shots, typically administered in the arm or thigh, and is given to children at ages:

- 2 months
- 4 months
- 6 months
- 12 to 18 months
- 4 to 6 years

Adolescents should receive a booster dose of diphtheria containing vaccine at 14 to 16 years of age and given as the combined tetanus toxoid, diphtheria toxoid and acellular pertussis (Tdap) vaccine

Adults should receive a booster of diphtheria containing vaccine every ten years given in combination with tetanus toxoid as Td.

Are there any special concerns about Diphtheria?

It is important to maintain routine immunizations and improving immunity for travellers and new immigrants.

If you have had close contact with someone who has diphtheria you will be contacted by public health. Close contacts are persons living in the same household, sharing the same room at school, daycare, nursery school or work and health care workers exposed to oropharyngeal secretions from the infected person. Close contacts also include those who have had close face-to-face contact to an infected person. This could be through kissing, sharing toys, foods, drinks or cigarettes.

Immunization with diphtheria toxoid produces prolonged but not lifelong immunity. Lifelong immunity is generally, but not always, acquired following disease or inapparent infection

Close contacts that are considered to be at increased risk (shared saliva) may be advised to take a specific antibiotic that will help to prevent them from developing the infection.