#### Facts About Diptheria.

#### What is Diptheria?

Diptheria is a desease caused by a germ called the diptheria bacillus. Like many diseases, there are special parts of the body where these germs find suitable conditions for growth. larynx. When diptheria bacilli attack that part of the throat about disease diptheria; if the nose is involved, nasal diptheria; if the mouth membranous croup.

As diptheria may begin in the nose. throat, or larynx, and spread so as to be present in one or both of the other parts, and since a membrane is formed by the growth of the germs you can readily see why it is called 'strangling" or, "choking disease." This membrane may reach such size that the air-passage will be stopped up entirely or cause difficult

#### Early Signs of Diptheria

Diptheria of the nose occurs most usually makes its presence evident by causing a continuous | bloody nasal discharge which makes the upper lip the State Laboratory of Hygiene for

as an "ordinary sore throat," and be to enable them to resist diptheria. so mild that scarcely any membrane will be formed and the real condition lina? For the last two or three years diptheria. cover the roof of the throat and make breathing difficult.

croup usually comes on suddenly in many would not have returned for the tine officer, so as to learn how to prethe nights and gets better when day second and third dose. comes. In membranous croup, as a rule, the child shows evidence of sickrarely in ordinary croup.

#### Don'ts About Diptheria

Don't forget that croup and sore treat your child.

night and does not get better soon

diptheria, if given very early after the onset. Each minute you delay lessens the possibility of saving its

Don't forget that diptheria can be prevented in about 90 per cent of cases if children between six months and six years of age are given three doses of toxin-antitoxin.

## Carriers

One per-cent of the people as a whole, are diptheria carriers. Carriers are those who harbor germs in the throat or nasal cavities. These carriers may have had the disease and knew they had it; or they may have become carriers by contact with a case of diptheria or another carrier and did not show symptoms of sickness. As a large percentage of people especially adults, are naturally immune to diptheria, you can readily see why there can be lots of carriers who have shown no signs of sickness.

Now you will understand "where Mary gets diptheria," when she has not been about any one the least bit

# Getting Diptheria

Diptheria is "caught" by a child who is not protected by nature and should have individual drinking vesgeting into his mouth the discharge

Now how do we get them? The secretions from the nose and throat of diptheria carriers are often rich in these germs. In coughing and sneezing, fine particles of spray are sent out by one person and breathed in by another. People are always picking their nose and putting their fingers on various articles which children carry to their mouths. By hand-shaking, handling the same things,etc., the secretion travel from one to another. Chewing the same gum, biting the same apple, using the same pencil, drinking from the same cup, blowing on the same handerchief, kissing, etc, all play a part in the same game of life against death.

## Time Of Greatest Danger

About 90 per cent of babies under six months old will not have diptheria sion is given by the quarantine officer

ment before birth, this number acenough antitoxin to protect them from diptheria until they are six months old, but by this time the antitoxin so obtained has disappeared from 85 per cent of these children. As they grow older, nature protects them; but man must assist nature. Knowing that idated Statues. namely, the nose, the throat, and the such large number of children under the tonsils and soft palate, we call the from the disease are in the same age attend any public or private school, of the greatest danger is from six atre, party, picnic, or other public six months to three years.

#### Toxin-Antitoxin

get in the throat.

Toxin-antitoxin was first used sev- carriers. to the throat or until you hear of or temporary bad effect, and to see private school, Sunday school, or having such a discharge and sent to made on 5,000 children who had the time of exposure. The same protoxin-antitoxin four years previously visions to rule 3 shall aply to rule 4 Diptheria of the throat may begin had enough antitoxin in their blood householder, and adult shall notify

communities, through the Bureau of posed to diptheria in his or her house. Diptheria of the larynx, which is Board of Health, and about 10,600 holder, or adult shall neither sell, give better known as membranous croup children under six received three away, or receive, in containers that affects mostly babies. It is quite often treatments. Since close to 86 per cent are to be returned, any milk, butter or confused with spasmodic croup, of those beginning the treatment other dairy products while the house The difference between croup and completed it, we feel sure that it is placarded, until a personal interlaryngeal diptheria is that ordinary caused very little discomfort, or so view has been made with the quaran-

endorsed by the Medical Society of spread the disease. ness before it gets croupy, and con- our State, and this organization also tinues to grow worse until sufficient requested the State Board of Health who has diptheria, has been exposed diptheria antitoxin is given to cure to supply it at a minimum cost, to diptheria, or has been found to be the disease. The voice is often lost Enough toxin-antitoxin to save your a diptheria carrier, shall attend any in membranous croup, and very child from diptheria can be bought public or private school, Sunday school through your doctor for 10 cents.

throat kill too many babies to let a for it to establish immunity in 90 per to do so by the quarantine officer granny, your neighbor or yourself cent of those taking three treatments, after having complied with the pro-Toxin-antitoxin does not prevent vision of rule 3. Don't put off calling your physician. one from becoming a carrier, nor does if your child gets croupy during the it cure a carrier. Germs may get in the throat, but toxin-antitoxin will during and at the termination of the Don't forget that diptheria anti- from developing. A diptheria carrier toxin will cure your child, if it has who has had toxin-antitoxin may develop tonsilitis. A laboratory examination of the throat will find the germs but the patient will not have clinical diptheria. Do not let such instances cause you to lose faith in toxin-antitoxin. It is not effective in every case.

## Care Of Sick Child.

The most important point in giving proper care to the sick child is to place it under the care of a good doctor immediately after you see signs of sickness. If this is done and diptheria antitoxin is administered properly there will be very few deaths from the disease. To enable every one to have accessible a diptheria antitoxin which is efficient, the North Carolina State Board of Health, through its Laboratory of Hygiene, will supply any physician or druggist in the State with diptheria antitoxin at 25 cents a

The child should be kept in a room to itself as much as possible, and only the person acting as nurse, and the doctor, should enter. Use a handkerchief to cover up the nose and throat so as to prevent those nursing him from catching the disease, and always be careful along this line, inasmuch as he may be a diptheria carrier. He who has not had three doses of toxin- sels and eating utensils for at least antitoxin for at least six months, by three weeks. As the "poison" made by the diptheria germs so often affrom the nose or throat of a person fects the heart, it is best for a child who has diptheria germs present to make sure to do this organ no about his tonsils or in the nasal harm, by remaining in bed several days after he is seemingly well, and, We see where the germs come from even then, be cautious about taking strenuous excercise for several weeks

## Rules Governing Parents

Rule 1. Each parent, guardian, house holder, and adult shall immediately and securely fasten in the most conspicuous place near the main entrance of his or her home (when living in a hotel, apartment house, or rented room, upon the door leading to their apartment or room) such placard as sent by the quarantine officer to him or her; and in case such placard is removed in any way whatsoever the householder, parent, or guardean shall immediately notify the quarantine officer, so that the placard can be replaced. This placard must remaja as specified for a period of twenty-one days from the onset of the disease or until written permis-

liptheria, date of onset, and name of hours after he or she has evidence to believe that the child has diptheria, as specified in Section 7152, Consol-

Rule 3. No parent, guardean, housesix years are susceptible to diptheria holder or adult shall permit any child the patient and attendants can be and rear the signs, symptoms, and the danand that 75 per cent of the deaths or minor who resides in his home to group, we can truly say that the time Sunday schools, church meeting, themonths to six years, especialy from assemblage, to go near a public park, or to appear upon a street while the house is placarded: Provided, however, that persons other than those Toxin-antitoxin is a preparation having diptheria are not to be in- Raleigh, N. C. used to prevent diptheria. It is given cluded in this rule, if the patient and in three doses at weekly intervals in attendants are completely isolated at the same manner that typhoid vac- all times, and if they can prove to cine is. No sores are caused. There the quarantine officer that they are is scarcely any reaction in young naturally immune to diptheria by the children, but in older ones and grown Schick test, or have had three doses people we find reactions more fre- of toxin-antitoxin at least twelve quently. Toxin-antitoxin cause the weeks previously, or will take an imbody cells to manufacture diptheria munizing dose of diptheria antitoxin antitoxin so as to have a supply of Provided, also that such persons frequently in young children, and it for immediate use if diptheria germs must have the necessary cultures made

eral years ago in New York by the Rule 4. No parent, guardian, housesore. This condition may last for City Department of Health. They holder, or adult shall permit any child but in this instance throat and nose use of the common dipper, drinking several weeks, and you would not have given it a thorough test to learn or minor, who has been exposed to cultures must be made, to rule out suspect any trouble unless it spreads if it was liable to cause any permanent diptheria, to attend any public or other children having diptheria who if it would prevent diptheria. The other church meetings, theatre, party pletely isolated at all times. have been playing with the child treatment was given to 2,400 children picnic, or other public assemblage, or having such a nexal condition. A cul- less than seven days old, and no bad to go near a public park, or upon a ture should be taken from any nose results followed. Studies have been public street, within five days from

and 90 per cent showed by test they Rule 5. Each parent, guardian. in some way the teacher if a child of What has been done in North Caro- minor living in his or her house has

of the child be overlooked until some toxin-antitoxin has been used to a Rule 6. Each parent, guardian, other child develops a serious case small extent by private physicians, householder, and adult must, upon refrom having come in contact with During the summer months of 1921 in quest by the quarantine officer, inhim. On the other hand, extensive seventeen counties campaigns were form him of the name and address of membrane may be formed which will conducted by doctors in their home any child or minor who has been ex-

Epidemiology, North Carolina State Rule 7, No parent, guardian, housevent contaminating these products The use of toxin-antitoxin has been with diptheria germs in order not to

Rule 8. No person, adult or minor. church meeting, theatre, party picnic Toxin-antitoxin is not the treat- or, any other public assemblage, to ment of diptheria, as is the antitoxin. go near a public park, or to appear It also takes six weeks or six months upon a public street, unless permitted

Rule 9. Each parent, guardian, householder, and adult must observe prevent the symptoms of the disease disease the following precautions, adopted by the North Carolina Board of Health for the prevention of the spread of diptheria:

(a) Those having diptheria must be kept in rooms to themselves as well as housing conditions will permit.

(b) As few people as possible are to be permitted to act as nurse, and in no instance a person whose duty will make it necessary for that party to leave the premises prior to the termination of the quarantine; and those nursing the sick must be made to wash their hands after each as-

(c) The room must be ventilated and the sun permitted to enter as insturcted by the doctor

(d) As far as possible, the discharge from the nose and throat must be properly disposed of by supplying the sick with paper napkins, rags, etc., to cover up the cough and sneeze, and uch rags, etc., must be burned after

(e) The feeding utensils and drinkng vessels handled by a person who has diptheria must not be used by any other persons until they have

been thoroughly boiled. (f) All washable material, such as sheets, pillowcases, towels, etc., which have been used by or come in direct contact with the person having had diptheria must be either boiled on the premises or soaked for three hours in a solution of carbolic acid in the proportion of a tablespoonful to a pint of water, or a preparation equivalent in antiseptic power.

To prevent the infection of the room and house during the disease is far better than to attempt to disinfect the room and house after the disease, All the terminal fumigations in the world will not atone for carelessness and uncleanliness in the care of the

It is good to give a room a thorough cleaning after any case of sickness. Such materials as can be boiled should be tracted; otherwise, expose it to the sunshine for several days. The room should be thoroughly aired and sunned. The floors and woodwork can be scrubbed with hot water and soap. These measures are safer and more economical than fumigation.

## Rules Governing Teachers

Rule 1. When a teacher has reason to suspect that any person residing in his or her school district has diptheria or when any child is absent from if the germs get in their throats. Rule 2. Each parent, guardian, theria, he or she must make a written report to the quarantine officer withschool because of what may be dip-

person in his or her home that has address of the householder with physician or the health officer. whom the person or child lives, and

> home where there is a person sick parent, householder, or guardian with with diptheria, and conduct or attend whom the child resides. public or private school, unless housing conditions can be such that quently to the attention of the child-

tion to the North Carolina State Board with "FACTS ABOUT DIPTHERIA." of Health, Bureau of Epidemiology,

quarantine officer that diptheria exist in a family residing in the school dis-

as are shown to be immune to the have had three doses of toxin-anti- so as to prevent its spread. toxin for not less than eight weeks; the possibility of a carrier, and the is present in his or her school district. patient and attendants must be com-

my pupil showing indications of dip- theria in his or her school district. theria, for five days or until the symp- | Cut this out and keep it,

the quarantine officer, giving the in twenty-four hours, giving the name toms here subsided, or a satisfactory quires from their mother's blood name, age, color, and sex of every of the person or child, the name and certificate is presented, signed by a

(c) He or she must report within school district, within twenty-four the name of his or her school district. twenty-four hours to the quarantine Rule 2. No teacher shall reside in a officer the name and address of the

> (d) He or she must have called ferare completely isolated at all times. | gers of diptheria, and read aloud be-Rule 3. The principal of each school fore the assembled school such letters must keep a copy of the posters and references, or lectures, and send to literature which points out the signs the homes by the children such liter and symptoms of diptheria as fur- ature as he or she may receive from nished to him or her upon applica- the county quarantine officer dealing

(e) He or she, within twenty-four hours after receiving notification Rule 4. When the principal of the from the quarantine officer of the school receives official notice from presence of diptheria in his or her school district, must notify, by letter or othrewise, the superintendent of trict, he or she is required to strictly the Sunday schools, church officials, obey and enforce the following rules: or some responsible person (when the (a) He or she must exclude from his address of such person is known), or her school each child living in a and have it announced at any public house, apartment, or room where meeting which is being held, the prediptheria exists, except such children valence of diptheria in his or her school district, its signs, symptoms, to prove that they are not diptheria disease by the Schick test or who dangers, and precautions to be taken

> (f) He or she must not permit the cup, or open bucket, when diptheria Rule 5. The principal of each school

must certify by letter to the quaran-(b) He or she must have observed line officer who has jurisdiction over daily the children in his or her the district that such duties as set school for signs and symptoms of the forth in these regulations have been disease, and is ordered and empower- performed whenever notice is received to exclude immediately from school ed from him of the prevalence of dip-

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