Bellefonte, Pa., April 27, 1923.

WHAT EVERY ONE OUGHT TO KNOW ABOUT GERMS.

By William C. Miller, M. D.

HOW GERM DISEASES ARE CON-

If you breathe in or swallow some of these microscopic germs they may find lodgement in your system. When an individual is "fit," as we say, the natural power of resistance is often able to prevent disease germs from finding such lodgement. When, however, the vitality is lowered or the membrane of the mouth and nose is irritated by a cold, the likelihood of infection is greatly increased.

The dread communicable diseases against which all public health agencies are fighting are: Bubonic plague, cholera, leprosy, small-pox, typhus fever, yellow fever, anthrax, infantile paralysis, cerebro-spinal meningitis, chicken pox, german measles, glanders, diphtheria, malarial fever, measles, mumps, relapsing fever, scarlet the standard protection against diphtheria. If you would do your bit toward checking disease you will join the forces which are trying to eliminate diphtheria from the category of diseases which are trying to eliminate diphtheria anti-toxin a requirement for administration of toxin anti-toxin a requirement for admin

paralysis, cerebro-spinal meningitis, chicken pox, german measles, glanders, diphtheria, malarial fever, measles, mumps, relapsing fever, scarlet fever, typhoid fever, and whooping cough.

You may smile at those words, "bubonic plague, cholera, typhus fever, small-pox and yellow fever," and say that American sanitation has stamped than and the american to a large exsmall-pox and yellow fever," and say individual would probably contract that American sanitation has stamped diphtheria if exposed to it, then toxin them out. In America, to a large example anti-toxin should be administered.

tent, yes.

But in Europe, war and revolution swept, plagues are raging. Men, women and children are dying by hundreds of thousands. And on two oceans, steamers are plying between insanitary Europe and Asia and sanitary America. In every American port, health officials are scrutinizing incoming passengers for disease carriers, killing rats which might carry plague from steamships to piers, and plague from steamships to piers, and delousing those wretched immigrants whose bodies and garments might be infested with the insects which carry

the deadly typhus germs.

An eminent public health expert who recently visited the plague swept countries of Europe has stated that if typhus be permitted to touch the port of New York, it will claim millions of victims in the metropolis, and sweep across the North American continent

like a prairie fire.

Therefore, it behooves every citizen in every city, town, village and rural community to turn from the picture of horror and death in Russia, Poland and the Far East to reinforce community and individual household protection against other germs.

Pure water and pure (pasteurized) milk are almost infallible protection against typhoid fever.

A BIG "IF." You will reduce danger from these: If you rid your town of these: Bubonic plague, typhus fever, yellow fever, malarial fever, relapsing fever, rats, lice, mosquitoes, flies, ticks, fleas, bedburg.

bedbugs.

When you think of the rats in the alley and the flies at the market house it may appear a hopeless undertaking, but begin today clearing your town of

both.

The scope of this article will not permit details as to the methods of ridding communities of rats, flies, mosquitoes, or that variety of vermin the presence of which the housewife is wont to regard as a reflection upon her administrative ability, but it is quite possible to get rid of the entire let. Write your State Department of Health for instructions.

The spread of more common diseases, such as infantile paralysis, scarlet fever, diphtheria, measles and whooping cough, can be checked quickly by intelligent co-operation between public health officials and individual citizens. The agencies used include strict zens. The agencies used include strict quarantine, injections of toxin and an-ti-toxin, and the simplest precautions on the part of individuals.

a serious illness, especially among children, is the so-called "cold in the head."

Just how much blame for the distribution of diseases may be placed at the door of the "common cold" no one can say. When the public shall have been educated in protection against colds, we shall probably know.

In the meantime an outline as to In the meantime an outline as to how colds are conveyed from one person to another may be taken as an example for the transmission of other diseases, such as meningitis, diphtheria, measles, scarlet fever, mumps, whooping cugh, etc.

In common cold the mouth, nose and throat contain myriads of germs which at the earlier stage of the disease are especially active and virulent. When the patient coughs or sneezes, droplets

the patient coughs or sneezes, droplets often so small as to be invisible, yet loaded to the full with the germs, are thrown into the air. If breathed in by another person of low resistance, there will be a new case of cold in the morning. If a person with a cold puts his hands to his mouth or nose, and then shakes hands with a friend, there is a conscious, and the next day another apart.

With few exceptions, the communicable diseases, those which you term "catching," are contracted by breathing in or swallowing germs.

Your town, your home, your body can be protected from germs, first, by the strict enforcement of public health laws; second, by the intelligent precautions which you take as an individual.

"Germs" is the common term applied to the different forms of bacteria which produce disease.

If your imagination has pictured infections.

YOUR OWN DEFENSE AGAINST GERMS In all communicable diseases there is a similarity of defense as well as attack.

When the hostile germs succeed in entering the system, with their increase in the numbers they throw off, into the blood stream, waste substances which, because they are poisonous to the body, are called toxins. These stimulate the protective functions of the body and the blood begins at once to produce substances are called If your imagination has pictured them. These substances are called

If your imagination has pictured disease germs as fantastic shapes with forked tongues and lashing tails, the glamour will fade when you view them glamour will fade when you view them under the microscope, for there you will see only objects which look like finely chopped hair, groups of dots, or pale corkscrews. They cannot be seen except by the aid of a high power microscope. Some are so small that 10,000 can nestle comfortably on a fine line an inch long.

The blood of animals inoculated with disease toxins, also makes antitoxins. The use of diphtheria and of animal since by dividing in half. In about thirty minutes the two germs thus formed will be fully developed and ready to divide again. In the next half hour the four thus produced become eight, and so on. Billions are lost in the struggle for existence, but a pencil and paper calculation of the 24-hour progeny of a single germ will astonish you.

The North of the the tails, the field and during the last year, fifteen Naval Air Service and Marine and the field and during the last year, fifteen Naval Air Service and Hawiian department for inthis course. The course is extended over ten weeks of intensive training during the last year, fifteen Naval Air Service and Marine and the field and during the last year, fifteen Naval Air Service and Hawiian department for inthis course. The course is extended over ten weeks of intensive training during the last year, fifteen Naval Air Service and Marine and the field and during the last year, fifteen Naval Air Service and Marine and the field and during the last year, fifteen Naval Air Service and Marine and the field and during the last year, fifteen Naval Air Service and Marine and the field and during the last year, fifteen Naval Air Service and Marine and the field and during the last year, fifteen Naval Air Service and Marine the field and during the last year, fifteen Naval Air Service and Hawiian department for inthicourse.

The blood of animals inoculated to make several jumps and is instruction. The blood o PERMANNET IMMUNITY AGAINST DIPHTHERIA.

TRACTED.

There is a way to establish permanent protection against diphtheria. If

TOXIN, ANTI-TOXIN. If the Schick Test shows that the

MILES OF BELL TELEPHONE WIRE IN PENNSYLVANIA - 1919 - 1922

between six months and two years of

(Concluded next week.)

Wearing of Parachutes Ordered by Government.

All persons riding in governmentowned aircraft are now required to wear a parachute on every flight, according to officers at Chanut Field, at Rantoul, Ill. A parachute course has been added to the train-in courses at

transfer of germs of which neither is It is given in three doses, a week officials. One is the seat pack and the other the lap pack. The seat pack conscious, and the next day another man comes down town with a red nose. Persons who have colds should avoid crowds and public conveyances, and, if possible, stay at home until recovered. They should always cough or sneeze into a handkerchief. Lowered vitality because of a cold renders the individual much more susceptible to other infections.

YOUR OWN DEFENSE AGAINST GERMS

The seat pack folds up and acts as a cushion for the men to sit on. Both styles are about twenty-eight feet in diameter when open and are made of a high grade of silk, having a tensile strength of forty-individual much more susceptible to other infections.

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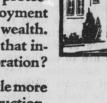
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The seat pack folds up and acts as a cushion for the men to sit on. Both styles are about twenty-eight feet in diameter when open and are made of a high grade of silk, having a tensile strength of forty-individual much more susceptible to other infections. have been made under every possible condition, such as tying knots in the cords, folding the parachute in tangles and releasing them in all kinds of weather. It is stated that when the trip cord is pulled the parachute will corn in the trip cord is pulled the parachute will corn in the trip cord is pulled the parachute. will open in about three-fifths of a second and with a two hundred pound weight attached will fall at the rate of about sixteen feet a second.—Ex-

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your home a safe one?

VOUR own home is an I ideal investment, always under your personal protection, adding to your enjoyment while it adds to your wealth. But have you protected that investment against deterioration?

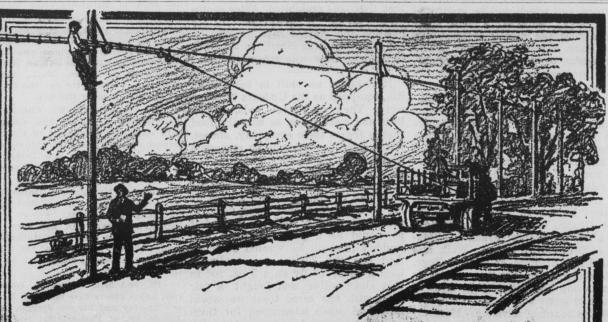


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