Democratic Watchman.

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Health and Happiness

Under these head lines will be contin-ued a series of articles begun November 10. They have been compiled and edit-ed with a view to progressive study and thought on subjects affecting our person-al well-heing

Number 16.

DIPHTHERIA: ITS CAUSE AND PREVENTION.

(Continued from last week.)

IMMUNITY AND SUSCEPTIBILITY. "By immunity we understand that condition in which an individual or a of even large doses of antitoxin. As species of animals exhibits unusual or has before been said, the time element complete resistance to an infection for in the antitoxin treatment cannot be which other individuals or other spe-cies show a greater or less degree of susceptibility. Immune is from the Latin immunis, meaning exempt from

agnosis cannot be made early enough tribute or free. Immunity may be: (1) acquired, as and diphtheria is suspected antitoxin

when an attack of an infectious disease should be administered anyway, for, brings about some kind of change in no harm has been done, should it not the patient's tissues which protects him or renders him immune against diphtheria, time and possibly a life further attacks of the same disease. (2) natural, when resistance has occurred naturally, and not through having the disease; this is for the most part, an inherited condition. (1)—Acquired immunity may be of

two varieties: (a) active, which re-sults from an infection and is due to the production through an active pro-cess on the part of the one injected, of immunizing substances. (b) passive, which is established in an individual through the introduction of ready-made immunizing substances (such as diphtheria antitoxin.)"

IMMUNITY TO DIPHTHERIA.

Very young children are resistant to diphtheria. This may be due to substances transmitted through the milk of the mother and which may disappear after the period of nursing. From the second to the eighth or ninth year children usually are very susceptible after which susceptibility grows less, the greatest percentage of deaths occurring under five years old. After the fifteenth year the disease is relatively rare.

"carriers" in a community would be greatly reduced. To accomplish this the co-operation of each individual is Why one person may have diphtheria and another, under the same conditions, escape is not definitely known. The presence of bacilli of low virulence in the throats of the latter may Health Service will be published in the next issue of the "Watchman," cause the development of antitoxin sufficient to protect, or it may be that in the former there is a lowered state of resistance to disease. It is also probable that the germs must be pres-Business and Amity in South America. ent in sufficient numbers before the disease is caused.

tonsils appear to be predisposing causes in children. Spontaneous re-said that the will and spirit of a peo-Soil conditions have an imporcovery (active immunity) is due to ple were quite as important to underthe formation of the specific antitoxin by the tissues of the patient. The du-ration of active immunity varies. Usu-ally an individual has diphtheria but once yet second and even third attacks conditions and people becomes conare known.

FARM NOTES.

jection into the muscles, instead of

has been saved.

tient.

April 20.

It is not to be forgotten that anti-

toxin does not destroy the bacilli but acts only on the toxin and its use jus-

tifies no relaxation in protective

measures such as isolation of the dis-

eased, quarantine and disinfection. The communicability of diphtheria and the fact that "carriers" of the

germ result from contact with per-

sons sick of the disease makes imper-

ative the strict isolation of the pa-

'A patient should not be considered harmless until his mouth, nose and

throat are free from bacilli, a condi-

tion for which repeated bacteriologic

examinations are necessary. A sec-ond, sometimes a third, negative ex-

amination is required by the Board of

Health in certain places before the pa-

tient may be released from quaran-

If it were possible to diagnose ear-

ly every case of diphtheria, and to se-

cure the strict isolation until throat

cultures are negative, the number of

necessary and that no one may be ig-

norant of specific measures, rules is-

sued by the United States Public

A high Brazilian official, speaking

those elements of agreeableness which

practical arts, but he dislikes to

A Good Match.

under the skin, is also a time saver. The question of where the potato is There are occasional accidents from indigenous and where introduced by administration of antitoxin, i. e., a child occasionally dies after inocula-tion but this is due to the fact that it man has never been strictly answered. It seems sure, however, that the potato is a native of the mountainous disis in the last stages of the disease, tricts of tropical and subtropical heart weak, etc., and the shock due to America, from Chile to Mexico and inoculation may have only hastened death a few minutes or hours. In otheven as far north as the southern part er cases, a patient may show the same of Colorado. idiosyncrasies to administration of

Data concerning the known use of the potato for food is not very defiantitoxin that occasional patients do nite. It probably was first taken to to ether or chloroform resulting in death. Some deaths are directly at-Europe from Peru by Spaniards early in the sixteenth century and spread from Spain to Holland, Burgundy and tributable to the fact that the serum of the horse is fatal to certain types Italy, though cultivated only as a of patients. The belief that antitoxin curiosity in a few gardens and little known or thought of. In "The Com-plete Gardener," published in 1719, it is not mentioned. favors the development of diphtheria paralysis is no longer held; on the contrary liberal doses of antitoxin given early in the illness influence fa-

As a food it was first used for pigs vorably the subsequent paralysis. Seand cattle. Then, on account if its vere cases of diphtheria are likely to great yield, it was suggested that it be followed by some paralysis in spite might be useful for the poor and pre-vent famine, due to the failure of the grain crops

As early as 1663 the Royal Society of London adopted measures to encourage its cultivation in England. It spread quickly in Ireland, but not until the middle of the eighteenth century did it acquire any real importance on the Continent of Europe. Of its first cultivation as a crop in North America even less is known.—New be diphtheria while, if the illness is York Times.

> -Treat Seed Potatoes.-The disin-fection of seed potatoes by soaking in corrosive sublimate or in formaldehyde is recommended by the United States Department of Agriculture as a measure that will tend to improve the germination and lessen the danger of scab.

Such treatment is, on the whole, profitable, but has several limi itions which should be clearly recognized to prevent disappointment. The object of disinfecting seed potatoes is to destroy the germs of scab and other surface parasites which might otherwise be planted with the seed and infect the new crop. Only surface in-fections are reached by this method. It is only effective against deep pits of common scab. Neither corrosive sublimate nor formaldehyde, as ordinarily used, will destroy silver scurf. Either one kill surface infections of black leg, but neither will reach the internal infections common in tubers from blackleg hills. Neither Fusarium wilt nor late blight infection in potato tubers can be reached by any seed treatment, nor can any of the non-parasitic diseases of potatoes, such as mosaic, leaf roll, and curly dwarf, thus be prevented.

Clearly, therefore, the most important precaution against these diseases is to select clean, disease-free seed potatoes from healthy, vigorous plants, as determined by field inspection during the growing season and at harvest. Seed treatment should then be applied as an additional precaution. Diseased conditions of the nose and recently in Rio de Janeiro of the It will not be effective, however, if the throat such as adenoids and enlarged means of fostering cordial relations soil where the potatoes are to be

Soil conditions have an important relation to potato tuber diseases, and many of these are widely spread line soil, and seldom gives trouble in

wooden vat or trough, into which the Another metnod is to use a potatoes in sacks are lowered by a rope and pulley and later hauled out,

drained, and dried on slatted racks. Seed potatoes may be treated several weeks before planting, provided they are not reinfected by storing in old containers or storage bins.

Sprouted potatoes are injured by treatment, but will throw out new sprouts. In general, however, pota-toes will not be injured by following the above directions. Many growers believe germination is improved by treatment

> FOR AND ABOUT WOMEN. DAILY THOUGHT

Make it an invariable law to yourself never to mention your own mental dis-When you talk of them it is plain that you want either praise or pity; for praise there is no room, and pity will do you no good .-- Johnson.

No feature of household decoration can do more to render a room attractive than the use of flowers. But the proper arrangement of flowers is an art, demanding study. The Japanese spend years in acquiring this art; but the average person gives to the ar-rangement of cut flowers no more thought than is given to the most un-esthetic of household tasks.

In the first place, most people err in the matter of vases. A vase should be considered always in connection with flowers-not as an object of art by itself. Vases of distinctive colors should be used carefully; a neutral tint, green or glass vases are safest. If you have vases of very positive

shades, use them only for flowers with which they will harmonize. Yellow pottery, for example, is lovely if filled with yellow flowers or with a combination of blue and yellow flowers. Low yellow or purple bowls fill-ed with pansies are a delight to the

Do not hesitate to dispense with ornate vases and substitute for them the most inexpensive of flower holders. A gray ginger jar filled with dusty miller and sweet alyssum is a thing of beauty; the white of the blos-soms harmonize perfectly with the soft gray jar. On the other hand, the most expensive of vases, in itself beautiful, may have its beauty nullified by an inharmonious arrangement of flowers

Chianti bottles, ginger jars and gold fish globes make excellent vases. They are simple and good in their lines and furnish an attractive setting for almost any flower.

Another common mistake in arranging flowers is to overcrowd the vase. Never bunch flowers. Each should be put in the water separately to insure a good effect. A long strip of lead coiled to fit the bottom of the vases is the best device for keeping the flowers upright. It is not so expensive as the china or wire arrangements that can be purchased for the same purpose, and it has the further advantage of being malleable and eas-ily squeezed into a vase of any size. A pretty device for flowers is the Aaron's rod to hang on the wall. This is merely a stick of bamboo with holes cut between the joints. Water is poured into each opening, and the

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in. The immunity given in this way vaded with sentiment and a regard cannot be relied upon to last longer than three weeks after the injection. It is useful to prevent attacks after exposure to the disease. that the milries and the peso "talk" in the southern countries often quite as plainly as does the dollar in the Unit-Rhizactonia occurs to some extent in

DIPHTHERIA ANTITOXIN.

Animals injected with slowly in- and the regard for friends bulk much creasing doses of diphtheria poison or toxin gradually become immune to its effects so that they stand without harm what would be a many times fa-tal dose when first injected. This is due to the fact that the body of the animal produces an antitoxin which neutralizes the introduced toxin mak-

ing it harmless. Diphtheria antitoxin is made from the blood serum of horses, because the horse has a high degree of natural immunity to diphtheria toxin, reacts to this toxin by producing a very large amount of antitoxin in its blood and can be bled in large amounts without

can be bled in large amounts without permanent injury. A healthy horse is treated to small doses of toxin. The treatment goes on for six months or longer and when tested the serum of the horse is found to have a large amount of antitoxin; a gallon or more of blood is drawn from the jurgelar weight with the paper has bought in Europe, with the paper he had bought in Europe, with the paper he had bought in Europe, with the paper has suited to his an old friend entered the paper busi-ness in New York and asked him for his order. "Of course," said the pub-lisher, "I could not refuse the son of an old friend. I am using his paper, from the jurgelar weight weight considerable inconven-the business in weight to be very pecially if the cut seed is to be very rigid asepsis, allowed to clot and the serum bottled aseptically and pre-served in a dark, cool place. This serum when injected into another anifrom the jugular vein under the most mal or human being will protect it from the effects of diphtheria. The antitoxin is standardized so

that dosage may be controlled accurately. Its curative power or poten-cy is measured in "antitoxin units" and is essentially the power of a cer-tain amount of a standard diphtheria antitoxin to neutralize diphtheria toxthese units to each cubic centimetre (1 cubic centimetre equals 15 drops approximately.) The efficiency of the other com-these units to each cubic centimetre (1 cubic centimetre equals 15 drops) Nt one would advocate continue to Nt one would advocate continue to the other comapproximately.) The efficiency of diphtheria antitoxin is so well known try. Yet there is something humanly that there should be no prejudice against its administration. It has caused a reduction of more than 50 loyalty to friends as this loyalty is reloyalty to friends as this loyalty is re-vealed in business affairs. If he loses per cent. in the mortality of the disin effectiveness he certainly gains in ease. That the fatality is not still further reduced is due either to the fact that not every case of diphtheria receives the antitoxin treatment, or the Northern temperament sacrifices. The traveler in the Southern countries that it is not employed soon enough, or that the dose has been insufficient. For protecting persons who have been exposed to diphtheria infection 500— 1000 units is the average dose recomthink of their losing entirely those qualities of sentiment which are so enmended.

For curative purposes the amount actually required depends on the vir-ulence of the infection and the duration of the disease; 3000 units is the average dose recommended but 50,000 to 100,000 units have been given in grave cases with resulting recovery. The United States Public Health Service advises that the first curative dose be not less than 10,000 units. The be not less than 10,000 units. The physician, however, must be guided by the conditions in the individual case. Antitoxin is usually adminis-tered by an injection under the skin (subcutaneous) but about eight hours in time may be saved if it is injected directly into a vein (intravenous.) In-

Temporary immunity may be given scious of an important racial quality acid soils. It, therefore, is increased by liming and by fresh stable manure, by an injection of diphtheria antitox- ic appearances. This quality is per- wood ashes, and alkaline fertilizers such as nitrate of soda and ground

> ed States, it is also true that feeling nearly all soils, but appears to attack potatoes most when conditions are unlarger in business than they do in the North American Republic. Having a "friend at court" is almost equivalent an ideal state of tilth to minimize loss larger in business than they do in the North American Republic. Having a to a certainty of securing what one from Rhizoctonia.

Powdery scab is worst on cold, wet, is friendliness more to be lamented. Things go largely by favor, and one succeeds because he is liked quite as often for his friendly and cordial manner as for efficiency, or because of should be planted.

the quality of his merchandise. An editor of a large newspaper said that scab. It is not a substitute for corrofor years he had received invitations sive sublimate or formaldehyde, but to buy paper in the United States; he had refused because he had been sat-to scab-infected soils at the rate of isfied with the paper he had bought in Europe, which was suited to his scab, but such heavy applications can

pecially if the cut seed is to be very small. Put into the solution all the though with considerable inconvenpotatoes it will cover and keep the South American business man, who batch covered by the solution for the was in need of a certain machine, experiod named under the treatment amined machines from two importers. being used. One was ostensibly superior, and also

The formaldehyde treatment concheaper, but, much to the surprise of sists in soaking the potatoes, before the importer of United States ma-chinery, he bought the inferior and more expensive article. When asked the reason for this decision he frank-the reason for this decision he frankly admitted the excellence of the goods from the United States, but added, "The agent of the French house is a friend of mine. I like that

particularly against Rhizoctonia, or russet scab, and powdery scab. Corrosive sublimate is used at the rate of 1-1,000 for one and one-half to two hours. Dissolve 2 ounces of the salt in hot water and dilute to 15 gallons. This is a deadly poison. Use with great care. It must be kept in wood, porcelain, or glass vessels, as it at-tacks metal. Seed so treated must not be used in the household or left where animals can reach it.

In using the corrosive-sublimate dip, it has been found that the soluis prone to wish for these people dip, it has been found that the solu-greater attention to utilitarian and tion becomes weaker each time it is used. The degree to which the disinfectant is taken out of the solution varies according to the amount of dirt

gaging and that gentleness which so often goes to make men great. on the potatoes, the character of the water, and the kind of container. For practical purposes it will be sufficient to add 1 ounce of dissolved corrosive sublimate to each 30 gallons of solu-tion after each batch of potatoes has been treated. When this has been done A portly colored man entered the drugstore and looked around uncerfour times throw away the old solu-

"Young man," he said to the clerk confidentially, "has you got any letter-paper and envelopes with flesh-colored tion and prepare new solution. To treat large quantities of pota-toes set several barrels on a slightly

flowers then set in. Trailing vines clematis, honeysuckle, etc .-- are exceedingly pretty in an Aaron's rod. Hanging vases for the windows and corners of the room are very attractive, and are to be had in good colors and lines at small cost.

When mother makes her sugar cakes She lets me play at baking, to. I roll the dough so smooth and nice, Then cut it nearly through and through With my own cutter-like a star

Five little points, so sharp and straight, I think them mos' too good to eat. -Evelyn Cary Williams

Many a good cook admits herself a failure when it comes to making an

omelet. This simple dish is exceedingly difficult to make successfully, and unless one knows just how to proceed the omelet, instead of being light and fluffy, will be flat, heavy and unappetizing. To make an omelet you must keep

the pan for this purpose only. Do not wash it, but clean it out well with paper after use. If you need to make

omelets of varying size keep a small and a large pan. It is more difficult to make a small omelet nicely in a large than in a small pan. Have a fairly hot fire ready, melt some fat in the pan, just enough to greas it all (ver dr) m re and break the eggs one by one into a cup to be sure they are fresh; then place in a bowl and whip well. The mixing must be thorough or the white

will set in streaks and not mingle with the yolk as it should do. The whites should be beaten separately, as is the custom of many cooks. This is only needed when making an omelet souffle Add salt and pepper, and if liked a little chopped parsley, and should a taste of onion be liked a half teaspoonful (to two eggs) of onion juice. Now pour the mixture into the hot pan. It should cover it thinly. Shake about well over the fire. An experi-enced omelet cook will not need to use a fork, but will turn the omelet one half over the other by means of a shoving forward sort of shake of the

pan The side of the egg mixture which touches the pan will cook quicker than the other, but when folded the inner heat will cook it still more in the few seconds which elapse between the cooking and serving of the dish. Place on a hot dish and serve immediately.

Some cooks roll the omelet into pancake form by means of shaking the pan; others merely fold it. The omelet should be flaky and moist inside and just set—not in the least hard on the outside. As a rule the fault of the making lies in inefficient mixing of the egg and over cooking. When a fancy omelet is needed dice

of ham may be stirred in or mince, spinach puree, stewed mushrooms or kindeys, or cooked asparagus tops placed on one half and the second half folded over.

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