

Public Health Dept. of W. C. T. U.

Edited by MRS. R. L. BOYD, Supt.

"ANTITOXIN"

How It Was Discovered and What It Is.

As has been previously stated, it is not the diphtheria germ that produces the constitutional effects seen in diphtheria, but it is the absorption and diffusion into the blood of a poison produced by the growth of the germs in the throat and their action upon the cells of the body. When once this poison is in the blood no amount of local treatment to the throat or affected parts will have any effect on the poison. The poison is as specific in its action as any poisonous drug, and the quickest and surest way to overcome any poison is to administer the proper antidote. Antitoxin is a specific antidote for the poison of diphtheria, as is shown by the great reduction in the death rate of the disease since its discovery. This great life-saving remedy, which has robbed diphtheria of its terrors, was discovered in this way: It was found that after diphtheria germs had grown in beef tea for some time it contained a substance which, when injected into an animal, would kill it, even after all the germs had been destroyed. Experiments upon animals soon showed that by administering small quantities in the beginning the animal did not die, and that after administering several doses, increasing the amount each time, an animal could soon stand at one dose, without any effect, what would easily have killed him if injected for the first time. It was now found that an animal thus treated would not develop diphtheria, even if inoculated with the virulent germ. Thus it was discovered that animals immunized in the manner described contain in solution in their blood serum a substance capable of neutralizing the poison, or toxin of diphtheria, and resisting the invasion of the germs. This substance on account of its action against the toxin of diphtheria was called Diphtheria Antitoxin. The earlier investigators used sheep, dogs and goats to carry on their investigations, but now all commercial manufacturers of antitoxin use horses. The horse is readily immunized and gives large quantities of blood, which clots readily and yields a beautiful clear amber serum. This serum undergoes further treatment, and is put up in syringes ready for use. The manufacture and preparation of all antitoxin for interstate sale, now on the market, is under Federal control, and all products must comply with the Federal requirements. Some people are prejudiced against the use of antitoxin, fearing that it affects the heart or produces paralysis. In this they have mistaken the results of diphtheria for that of antitoxin results which would not have happened had antitoxin been given early enough and in large enough doses. It is true that antitoxin sometimes produces slight skin eruption "hives," but that soon passes off with no ill effects to the patient.

We feel that we can truthfully say, the greatest danger in diphtheria is the failure to give antitoxin early enough and in large enough doses.

The Inconsistencies of the Wise.

They Say—
He who hesitates is lost.
Beauty is only skin deep.
Faint heart ne'er won fair lady.
Necessity is the mother of invention.
Love conquers all things.
A stitch in time saves nine.
Better be wise than rich.
The pen is mightier than the sword.
And Then—
Look before you leap.
A thing of beauty is a joy forever.
All things come to him who waits.
There is nothing new under the sun.
Love is blind.
It's never too late to mend.
A little knowledge is a dangerous thing.
In time of peace prepare for war.
—Life.

Back Johnson's lecture to the clergymen on the ethics of boxing was not as well attended as the one he delivered to Jeffries.

Home-Made Perfume

A girl well known for her daintiness conceived the idea of compounding her own perfume at home, and now several of her friends are thanking her for the suggestion.

Of course this girl knew that the basis of all perfume is essential oil; that is, the original perfume or oil from which all odors are made. From an importing chemist she found that the price of half a dram of this oil was quite beyond her pocket and would make enough scent to last one person an entire lifetime. Not at all daunted in her determination to secure an agreeable perfume, she invited several friends to share her idea, plus the divided cost of the essential oil. They were delighted at the prospect of delightfully perfumed water for their dressing table and both at a comparatively small cost, so the original perfume was purchased.

Enough money was expended to secure an excellent quality of essential oil, and to it was added deodorized alcohol to make it of the desired heaviness. The oil was acrid in its raw state, but the druggist explained this was only because of its strength, which proved to be correct, for when the alcohol was added it became deliciously fragrant and delicate.

The amount of alcohol to be added depends entirely upon the quality of the oil and the heaviness of scent to be attained. Spirits of wine may be used instead of alcohol. The best way to try it by adding the deodorized alcohol or wine until no trace of acidity remains.

Obvious perfume is never a mark of refinement. Avoid odors that become stale easily, as they are often most disagreeable in their disappearing state. Lily odors are much more liable to cloy than than the more evanescent ones, such as rose, violet, lavender or lilac. A bouquet of flowers is a novel idea liked by many.

Aviators Narrow Escape

Fayetteville, Oct. 26.—While making a trial flight at the Fayetteville fair grounds in a Strobe biplane today Aviator K. Belton of Chicago fell thirty feet to the ground and narrowly escaped death through the fortunate landing of his machine on the edge of a ditch which threw him forward on his head; otherwise the weight of his engine might have crushed the nery aviator, who arrived here only this morning to fly the machine which Harry Levan had abandoned on account of the perilous circumstances surrounding the flights which were to be made here.

Belton ascended perhaps forty or fifty feet and dropped when his engine went dead. For some moments the intense excitement reigned among the spectators. It was thought at first that the aviator was dead but he arose from the ground with his head and face blood-covered. His injuries proved to be only bruises, and he received medical attention and walked the length of the field to his tent and was later taken in a doctor's motor car to the Highsmith hospital.

Fashion and Woman's Toes.

New York World.
A German professor warns American women that they will lose the little toe from each foot if they do not revolt from "the slavery of fashion" and wear larger shoes. Tight shoes, he argues, by deforming the great and little toes, retard the circulation; slower circulation means colder blood; colder blood is a reptilian characteristic. Ergo, the approximation of women to lizards.

The professor's anatomical syllogism is ingenious, but the flaw in it consists in the fact that fewer women nowadays wear tight shoes than within a generation at least. Their feet have been emancipated as a result of their greater devotion to athletic sports, and at a recent convention of shoe manufacturers it was announced that the average size of women's shoes had increased. Nor is it likely that Nature would allow the complete atrophy of any of the toes even if fashion favored it. She shows herself loath to give up any part of the human mechanism. Having retained the vermiform appendix through the ages since man's ascent from the ape, it is impossible that she will ever dispense with even the smallest of the toes.

If it were not for Africa Europe might be reasonably law abiding.

90,000,000 Kings and Queens.

Nobody should be hungry in this country. This year the farmers have raised wheat enough to give each family 10 barrels of flour, 150 bushels of corn, 50 bushels of oats and 43 bushels of potatoes. Somebody has to dispose of all that food, and if it is not eaten in the United States it will be exchanged for cash in other countries and thus play a part in the general plan of living. There is a good deal talk about Americans wearing out those food supplies by much handling in the commercial places, and there is no doubt the cost of living is advanced by that much handling, because each handler demands a profit for his work. There is a possibility that the entire people might live cheaper if they would insist on taking the produce direct from the farms or the mills where it is prepared for the cooks, but the handlers, who are called middlemen by the reformers, are evidently a natural product of the American habit of depending on somebody to wait on each family or community. So long as we are all kings and queens and insist on being waited on by these servants of the public we must pay the price and let it go at that. It is more expensive than anything the old dynasties could afford, and that is why it looks so large to the ninety million kings and queens of the United States. —Worcester Telegram.

Taft On the Parties.

Addressing the banqueters at Minneapolis, President Taft overflowed with political benignancy, and, looking about the board, solemnly declared that it was practically impossible in these days to distinguish a Democrat from a Republican, saying that the parties present as many shades or complexions as the Philippine Assembly when he witnessed that body. This is a fine presidential sentiment to which to give expression at times, but the old question of what is a Democrat or what is a Republican remains just about as much in point as it ever did. Mr. Taft is very kindly and generous in his distribution of praise, irrespective of parties, and is not disposed to capitalize the enormous part that he himself has played in placing effective nationalism upon such a high plane as to leave for the unsettled elements of the two parties the carcass of outworn political expedients.

In these days there is much ado made over direct government versus representative government, and the friends of the commission form of government for cities, the use of the referendum, the initiative and the recall are not disposed at the present time to pay much attention to their respective party standards. But so far as the Republican party is concerned, this is only a passing condition, as that party stands for the progress of federal ideas in any direction the American people desires them to take and for the formation of an ever new body of public sentiment. It will be found that all Republicans will get together upon the Republican platform, even though they may have diverse in regard to some matters of procedure.

So that President Taft, had he been disposed to offer a definition with a distinction, might well have said that a Republican is one who provides the factors of progress and knows how to use them, while a Democrat is one who supplies talk about progress and abuses those who progress.

"A Welcome Chance to Those Who Suffer."

Coming to Burlington, N. C. On Tuesday, Nov. 14th, 1911. To Stay at Hotel Ward. **Dr. Francis S. Packard** of Greensboro, N. C. One Day Only **Consultation and Examination Confidential. Invited and FREE. ONE DAY ONLY.**



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Mr. Bryan's religion is summoned up in the words, "Love thy neighbor as thyself," provided of course that the neighbor believes in government ownership and the initiative referendum, and recall; otherwise, swat him. Wouldn't it be cheaper Mr. Carnegie to Luy Tripoli?

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No. 112	East	1:32 A. M.	No. 111	West	5:32 A. M.
No. 108	"	8:12 A. M.	No. 21	"	11:18 A. M.
No. 144	"	10:25 A. M.	No. 139	"	6:29 P. M.
No. 22	"	5:00 P. M.	No. 131	"	9:17 P. M.

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Terrible Picture of Suffering
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