INFLUENZA IS A MYSTERY.

and Science.

(By Frederick J. Haskin.) An experiment that makes the transmission of influenza a more baffling mystery than ever, and which at the same tome places on record an act of self-sacrificing heroism by about 100 naval volunteers, has just been completed by officers of the United States public health service cooperating with medical officers of the United Staates navy at Boston and

San Francisco. As nearly every one knows, scientists all over the world, in combating the spread of influenza which is still going on, have proceeded on the assumption that it is transmitted chiefly by coughing and spitting. The theory has been that the diseased mucus thrown out by these acts is filled with the germs of influenza, which thus find lodgment in healthy tissue. All the experiments heretofore made seem to indicate strongly that influenza is transmitted in this way, and it is well accepted that most other respiratory diseases are so carried.

The latest experiment consisted in submitting the 100 men who volunteered for the purpose to every possible method of infection with influenza germs through the nose and throat. These men risked their lives for the general good, and for the advancement of science. They went through a singular trying and repulsive ordeal. They, and every one else, believed that they were being moculated with the dread disease which is destroying millions of lives all over the world. Their heroism is fully equal to that displayed some years ago by the men of the army medical army corps who exposed themsives in Cuba to the bites of mosquitoes in order to determine finally whether yellow fever was transmitted by that insect. The only difference in the two experiments was in the result. Some of the officers who exposed themselves to the bite of the mosquito contracted yelloy fever, and one of them died, thereby establishing the soundness of their theory. The volunteers who submitted themselves to inoculation with the germs of influenza were toms of influenza.

This astonishing negative result, scientific circles should not tempt any himself to infection by those acts. As officials of the public health service point out, it may be that the germs of the disease disappear as soon as or immediately after the symptoms appear. Something like this is true of other diseases. In measles, for for example, it has been found that the germs which cause the disease are all gone within five or six days after the appearance of the rash, and the case is no longer contagious. The discovery of this fact, which was made by Anderson and Goldberger of the public health service only a few years ago has led to shortening the quarantine for measles by more with Pfeiffer's influenza than half.

"These new experiments in the European reports transmission of influenza," said Surgeon General Blue, "show how difficult is the influenza problem. They by no means indicate that we can afand spitting as common means of spreading disease; and even in the tion should always be borne in mind. I believe however, that we have not paid sufficient attention to other paths of infection, especially to the lips, mouth and hands. The fact that army camps where the sterilization of all eating utensils and dishes was rigidly enforced, shows the importance of the mouth as an avenue of infection."

There can be no doubt that these experiments at Boston and San Francisco were carried out with the utthoroughness. Lieutenant Commander Rosenau of the navy medical corps and Surgeon Joseph Goldberger of the public health service were the officers in charge of the Boston experiment, which was made at the quarantine station on Gallop Island. Forty-seven men were the subjects of this part of the experiment. All of them had been more or less exposed to the disease and 39 of them had never had any bronchial disease. This means that some of them may have been naturally immune to influenza, but it is not ed by influenza that it may be said

The first experiment consisted in described. thoroughly infecting the noses of by means of swabs and sprays. The is prevalent.

NEW COUNTY VOTES MARCH 11.

So Far It Has Defeated Medical Skill Allendale Then to Pick Out Offi-

Barnwell, S. C., Feb. 22.-The first primary election to select officers for the new county of Allendale, carved out of portions of Barnwell and Hampton counties, will be held March 11th, with a second election two weeks later, if one be necessary.

Acording to reports reaching Barnwell, the "woods are full" of cadidates for the various offices, the rather large assessment not having been a deterrent. At a meeting held in Allendale a couple of weeks This Space Patriotically Donated By ago, the assessments were fixed as follows: Clerk of Court, \$100; sheriff, \$100; auditor, \$55; judge of probate, \$50; superintendent of education, \$50; senator, \$10; coroner, \$10; magistrates, \$5.

The new county also proposes to vote on the question of whether or not bonds shall be issued for road improvement in a sum not less than \$250,000, nor more than \$500,000. The road question was one of the prime factors in the new county movement, and this phase in the development of Allendale county will be watched with considerable interest by the residents of the mother

As Man to Man.

"Your wife says you have her ter-

"Honest judge-"

toms of the disease.

"I do not ask you this in my officlial capacity, but as a man to man. Do you understand?"

"Yes, your honor." "What's your secret?"-Kansas City Journal.

time occupied in removing the diseased mucus from a sick man and putting it into the nose and throat of a well man was reduced to as little as 30 seconds. Yet none of the men so infected developed any smp-

Determined that the test should be exhaustive, the doctors next submitted a group of volunteers to infection by actual coughing and spitting. For this purpose ten volunteers were selected, and ten bed pafully expected to take the disease, tients who had recently come down and were prepared to die. But not with severe attacks of influenza. one of them developed any symp- Each of the volunteers leaned over the bed of each of the sick men, conversed with him for a few minutes, which is the sensation of the day in and allowed the patient to cough directly in his face, so that there one to be careless in the matter of should be no doubt of a transmission coughing and spitting or in exposing of diseased tissue. Each volunteer was thus exposed to ten different cases of influenza, and was in close proximity with them for not less than three-quarters of an hour. Yet not one of these volunteers developed any symptoms of influenza.

The experiments in San Francisco, which were carried out under the direction of Surgeon G. W. McCoy of the public health service, and Lieut. De Wayne Richey of the United States navy at the Angel Island quarantine station, were very similar in method and in result. The men who volunteered for these had been and pneumonia germs. would indicate, influenza is caused by an ultra microscopic germ, such vaccination would be without protection to those so vaccinated. None of these men ford to disregard coughing, sneezing had been exposed to the influenza

In this experiment there was no case of influenza this source of infec- direct exposure to patients, but the additional methods of infection were tried of injecting the blood of an influenza patient into that of a volunteer, and of introducing the pure cultures of influenza bacilli into a volthe disease was much less common in unteer's eye. No one of these men developed influenza.

The result of this experiment has left the medical world completely be-

The theory which has apparently been upset by these experiments was originated by a famous French physician Nicolle, who claimed to have produced influenza with a material obtained from mucus excretions. He produced the disease with this material after filtering through a fine porcelain filter, showing that a germ was present which was not only too small to be detected with the microscope, but too small even to be held back by the fine pores of unglazed percelain. Foster, an American army surgeon, showed that common colds were produced by equally minute germs. The work of Foster bore so directly on the problems presentat all probable that all of them were. to have led to the experiments there

The only thing which can be conabout ten of the men with cultures sidered proved about influenza so far of Pfeiffer's influenza bacilus, a viru- is that it is still a mystery both as to lent germ commonly found in influ- the nature of its causative germ and enza. None of the men developed any as to its means of transmission, and symptoms. The next form of the ex- | therefore especially dangerous. Auperiment was to take the secretions thorities, however, still consider infrom the noses and throats of influ- fluenza a crowd disease, and all unenza patients and place them in the necessary gatherings of people noses and throats of the volunteers shoud he discouraged when influenza

Automobile batteries recharged by Delco-Light at Brickle's Garage. adv.

BUY--WAR SAVINGS STAMPS CONSTANTLY

Chero-Cola Bottling Co. Bamberg, S.C.

Do not allow poisons of undigested food to accumulate in your bowels, where they are absorbed into your system. Indigestion, constipation, headache, bad blood, and numerous other troubles are bound to follow. Keep your system clean, as thous-ands of others do, by taking an occasional dose of the old, reliable, veg-etable, family liver medi-

Thedford's

Black-Draught

Mrs. W. F. Pickle, of Rising Fawn, Ga., writes: "We have used Thedford's Black-Draught as a family medicine. My mother=in-law could not take calomel as it seemed too strong for her, so she used Black-Draught as a mild laxative and liver regulator . . . We use it in the family and believe it is the best medicine for the liver made." Try it. Insist on the genuine— Thedford's. 25c a pack-

NOW

is the time to order Fertilizers if you want them.

ORDER

ROYSTER'S

F. S. ROYSTER GUANO CO.

Norfolk, Va. Baltimore, Md. Toledo, O. Tarboro, N. C. Charlotte, N. C. Columbia, S. C. Spartanburg, S. C. Atlanta, Ga. Macon, Ga. Columbus, Ga. Montgomery, Ala.



Here's to the battles you've fought and won, Risking your lives as though it were fun, Our hats are off to you.

Our boys are returning victorious. Let's give them such a welcome as they never had before

Bring out the very fattest fatted calf, and don't forget a few cold bottles of their favorite

THERE'S NONE SO GOOD



Pure, Wholesome and Refreshing