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Dr. Byrd

Perspectives – Infectious Diseases in History

with other illnesses. A description of the diverse and its symptoms can be found in the

1918-1919 Influenza Research Paper

April 31, 2006

The Common Cure

Influenza, the flu, la grippe, jolly rant, the new acquaintance, all names describing an illness caused by the Influenza virus. In 1918-1919 Influenza spread across the world causing pain and grief everywhere, Georgia and the rest of the Southern United States were not spared from the grip of the Spanish Flu. Even though influenza was not a new illness, when Spanish Influenza spread into the Southern United States people were unprepared to handle the situation as they had little reliable knowledge as to how to prevent infection and the spread of the disease.

The Spanish Influenza was a strain of influenza that struck the world throughout the years 1918 and 1919. The term "Spanish Flu" came as a result of events in World War I when Spain, who maintained neutrality, began reporting about the onset of the virulent strain of influenza. Everywhere else the newspapers were being filled with reports of the worldwide war and had little room to report about the spread of influenza, which was sometimes downplayed in its threat and importance. One newspaper article in the Moultrie Observer even claimed that the Spanish Flu was not dangerous and that the reports of its rapid spread and danger were undoubtedly over exaggerated because there is no disease that could spread that quickly. Even though the 1918-1919 influenza strain was dubbed the 'Spanish Flu' it did not necessarily originate in Spain. It most likely first struck the various armies fighting in World War I.

The symptoms of influenza are not always the clearest and can often be confused with other illnesses. A description of the disease and its symptoms can be found in the Savannah Morning News: "No disease develops so quickly or spreads so rapidly. The first symptom usually is a sharp rise in temperature to 103 or 104 degrees, headache, pain

¹ "Spanish 'Flu' May Catch You," <u>The Moultrie Observer</u> (Moultrie, Georgia), October 8, 1918, 1.

in the back, throat feeling dry or sore."² Another complication that often accompanies influenza is various types of pneumonia, whether caused by the strain of influenza or brought about through another pathogen and allowed into the body due to the individual's weakened immune system. It is the pneumonia that causes the most deaths in cases of influenza and in the 1918-1919 influenza pandemic. While the Spanish Flu had a high mortality rate as compared to other strains of influenza, its mortality rate was relatively low as compared to other illnesses. The Spanish Flu had a worldwide mortality rate of about two to three percent.³ However, the great harm and threat caused by the disease was a result of it's wide spread infection and its ability to kill even healthy young adults rather than just the young children and the elderly. It is estimated that "some 20 to 40 million people died of influenza in less than a year [during the 1918-1919 flu pandemic]...[and] one-fifth of the world's population was infected."⁴ Another interesting statistic regarding the virulence and potential damage caused by the Spanish Flu is that nearly eighty percent of the United State's Army's casualties in World War I were caused by influenza and not war related wounds.⁵

Throughout the influenza pandemic there were three main forces that were trying to prevent and cure the deadly illness. These forces were the doctors, the local health boards and the public in general. Each group propagated methods that they thought were supposed to be successful in preventing and combating the Spanish Flu. By looking at

² "Health Boards Give Warning of Influenza Danger," <u>Savannah Morning News</u> (Savannah, Georgia), November 1, 1918, 8.

³ Michael B. A. Oldstone, <u>Viruses, Plagues, and History</u> (Oxford, England, Oxford University Press, 1998), 173.

⁴ Ibid., 173.

⁵ Ibid., 173.

the methods that people believed could be used to fight off and prevent influenza one gains an insight into how those people felt about the illness at the time.

The general public, by far, had the most ways to fight off influenza. These were people that had little or no medical knowledge and were using mostly hearsay and rumor to develop defenses against influenza. The greatest source of the public's defenses against influenza came from advertisements in the newspaper. These advertisements provided information about the Spanish Flu: how dangerous it was, how to prevent it, how to fight it off when infected, its symptoms, among other tidbits of information. Once again, the most important thing to remember when looking at the methods that the public used to avoid and get over influenza is that they had no medical knowledge. An example of some preventative measures taken by the general public can be found in almost any advertisement in any newspaper: "...(Eucapine Salve) Is Most Effective Preventative, Known...Sterilize morning, noon, and night by sniffing the Eucapine up into the nostrils and rub a little on the back of your tongue, whence it will spread to your throat and tonsils, thus sterilizing the nose and throat." Sterilization of the throat and nose is the most effective method of preventing influenza according to this article, yet another claims "Nothing you can do will so effectively protect you against the Influenza or Grippe epidemic as keeping your organs of digestion and elimination active and your system free from poisonous accumulations." Both articles claim to be the most effective way of preventing the Influenza, yet this can obviously not be true. These opposing articles, placed on the same page in the same newspaper help show the confusion that the

⁶ "Avoid 'Flu' By Sterilizing Your Nose," <u>Savannah Morning News</u> (Savannah, Georgia), November 1, 1918, 5.

[&]quot;How to Avoid Influenza," Savannah Morning News (Savannah, Georgia), November 1, 1918, 5.

public had regarding the cause of influenza and how to prevent it. It is important to note that none of the articles specifically say that they refer to what people think, however they are all advertisements and through extrapolation one can figure that what is being so widely advertised throughout many newspapers is what the general public is using. Most advertisements promote medicines as panacea's, taking care of many different illness: "Dr. Williams' No. 101 Tonic is a ready prepared prescription of a noted physician, the late Dr. G. B. Williams, of Quitman, Ga., and has been extensively used for malaria, grippe, colds, chills, and fevers. Get a bottle at once and begin taking it and make yourself immune from the 'flu.'"8 Here we have another example of a cure all medicine. The underlying theme of all the advertisements and all of the different preventative measures that the public has at their disposal is that these cures make money. The threat of the Spanish Flu is not taken very seriously other than it provides an opportunity for some people to develop 'cures' to sell off and make money with. With that being said, it is clear that the public was not provided very effective options to use to protect themselves from influenza and so they must have had to resort to a great variety of different tonics, and behavioral defenses against influenza. As a result of the public's lack of medical knowledge about influenza they were forced to resort to taking the word and opinions of others in order to protect themselves from the Spanish Flu. The reader has already been shown some examples of how the general public's defenses against influenza were affected by advertisements about various drugs, but the behavioral defenses against influenza were supported the strongest by the many health boards and committees.

⁸ "Don't Have the 'Flu'." Savannah Morning News (Savannah, Georgia), November 1, 1918, 3.

It was the job of the health boards to keep their town safe from illness and disease. As time progressed and they were forced to develop protective measures against many different diseases the theme that most seemed to stick with was "rest in bed, especially during fever, warmth, fresh air, abundant, wholesome food, and medicine for the relief of pain and fever...." The main efforts from the health boards was trying to enforce behavioral practices in order to prevent the spread of influenza. Another example of preventative measures that the health boards told the public is a method of killing the bacteria left by an infected person. "During the disease handkerchiefs and linen contaminated by the patient should be disinfected by boiling water or soaking in a disinfectant solution, such as 5 per cent carbolic acid or chloride of lime solution. To disinfect rooms after the disease, thorough cleaning, air, and sunning will be sufficient."10 Once again there is an emphasis on getting fresh air in order to prevent the disease and to help recover from the disease, yet the old children's rhyme comes to mind: I had a little bird, its name was enza, I opened the window, and in-flu-enza. Ironically shows some opposition to the idea of 'opening the window and getting fresh air,' although the rhyme could merely be referring to the seemingly unstoppable onslaught of the disease it is interesting to take note of. The health boards had, generally, more medical knowledge than the public did, and could give better advice, as pertaining to what preventative measures one should take in order to protect oneself from the Spanish Flu. Another major method of prevention emphasized by the state health boards was isolation. In Atlanta, "Immediate closing of schools, churches, theaters, and other places of public assembly in communities threatened by an epidemic of Spanish Influenza is

⁹ "Influenza Rapidly Spreads in Georgia," <u>The Albany Herald</u> (Albany, Georgia), October 4, 1918, 8.

¹⁰ Ibid., 8.

recommended...by the Georgia State Board of Health...."

Other preventative measures listed in this article included: using individual drinking cups, sleeping in well ventilated rooms, preferably on a sleeping porch, resting immediately if stricken with a severe cold or influenza, and resting until completely healed, and keeping offices and other work places well ventilated.

The three main preventative measures promoted by health boards were isolation, in order to prevent giving the disease to someone else and prevent one from contracting it from someone else, ventilation, in order to allow the fresh air in to keep the disease from infecting the body, and rest. To keep the body's strength up so that if one came in contact with the pathogen then one's body could fight it off.

The group with the most medical knowledge was, obviously, the doctors and physicians. This group of people also supported the prevention of influenza in a different method. The medical community supported some medicines for treatment of influenza and also supported behavioral steps taken in order to prevent the spread and acquirement of influenza, but their greatest support seemed to be in the area of vaccinations. The advertisements seen in medical journals were much different than those found in the newspaper. The medical journal's advertisements were often promoting the purchase and use of various influenza vaccines rather than some panacea-like tonic. One advertisement in a medical journal was supporting the Mulford Influenza Serobacterin Mixed as a mixed bacterial vaccine and as an efficient prophylactic and therapeutic agent. One article gave some general statistical data about the effectiveness of using a

¹¹"Spanish Influenza Epidemic Calls for Drastic Measures: Closing of Schools is Recommended by State Health Boards," <u>The Albany Herald</u> (Albany, Georgia), October 8, 1918, 3.

¹² Ibid. 3

¹³ "Influenza Prevention and Treatment," <u>The Journal of the Medical Association of Georgia</u>, IX (May, 1919).

prophylactic vaccine. The article generally stated that the number of cases among people vaccinated was higher than those not vaccinated, except in the number of people in hospitals contracting pneumonia. It also said that the mortality rate among those inoculated three times was about one-fifth that of those who were not inoculated. So this shows that those vaccinated were more likely to become infected under regular conditions but were much less likely to develop the severe symptoms of pneumonia, and were much less likely to die from the influenza.

Among all three groups of people supporting various preventative measures against the Spanish Flu, one thing was common; no one was certain about any method of treating or preventing influenza. Without certain knowledge of one preventative treatment people tried to develop as many as possible, to a point where it seems like the main goal for individuals was not preventing the spread of damage of influenza but instead the main goal was acquiring money through selling one's drug. In general the preventative measures taken by people were rest, isolation, and some form of medicine intended to stop the Spanish Flu.

¹⁴ "Influenza Vaccine," The Journal of the Medical Association of Georgia, IX (May, 1919), 97-98.

Annotated Bibliography

Oldstone, Michael B. A. Viruses, Plagues, and History. Oxford, England: Oxford

University Press, 1998.

This source was used in my paper for some statistical information about the mortality of the Spanish Influenza Pandemic. The source qualifies as valid because it is used as a textbook for a college course about infectious diseases. This source also qualifies itself as valid because it provides an extensive list of the sources that the author used for his research. The intended audience for this source is those who are looking for initial study into the area of how infectious diseases have affected history.

"Influenza Prevention and Treatment." The Journal of the Medical Association of

Georgia, IX (May, 1919).

This source was useful for my paper because it provided an advertisement about an influenza vaccine. The intended audience is scientists and doctors, and anyone who would be reading a medical journal. The source qualifies as valid because it is from a medical journal where restrictions for printing something would be more strict than other sources, allowing for a reliability of the information given.

"Influenza Vaccine." The Journal of the Medical Association of Georgia, IX (May,

1919), 97-98.

This source was useful for my paper because it provided an article about an influenza vaccine being discovered and the preventative effects that the vaccine has had in its application. The intended audience for this source is also anyone who would professionally or personally have an interest in reading a medical journal and who has the knowledge to understand the subject. This source is valid because it is in a medical journal where its validity would be checked before its publication in the journal would be allowed.

"Avoid 'Flu' By Sterilizing Your Nose." Savannah Morning News, 1 November 1918, 5.

This source was useful for my paper because it helped show the variety of preventative measures offered to the public. The intended audience for this source was anyone who took interest in reading the newspaper, particularly those older readers who would be able to go to the drug store and purchase the medicine being advertised. This source's validity comes only from the fact that it is in a newspaper at the time of the influenza pandemic and is thus a first-hand source. Although some validity is taken away because the source is an advertisement and would, by its nature, be exaggerating the effects of the drug being advertised.

"Don't Have the 'Flu'." Savannah Morning News, 1 November 1918, 3.

This source was helpful for my paper because it was an advertisement showing that there were a variety of options open for those who wished to protect themselves from influenza as well as many other illnesses. This source also showed the concept of the cure-all medicine that was prominent during the Spanish Flu pandemic. This source was directed at those who desired to remain out of the reach of influenza and other diseases. Due to its nature as an advertisement this source is also particularly directed towards adults who have the ability to purchase the drug at the drug store. The sources validity comes from the fact that it is a first-hand account of the Spanish Flu pandemic and the people of the time.

"Health Boards Give Warning of Influenza Danger." Savannah Morning News, 1

November 1918, 8.

This source was helpful to my paper because it gave health board's opinion about the Spanish Influenza pandemic and it provided another explanation of how to treat influenza. The target audience was the general public because it is providing general information about the spreading influenza pandemic, but it also targets, somewhat, adults because within the article it promotes the purchase and use of Hyomel, a drug intended to preventative and healing agent for influenza. This source's validity comes from the fact that it is a first-hand account, and that it is referring to information provided by a health board, which is supposed to be a reliable source of information.

"How to Avoid Influenza." Savannah Morning News, 1 November 1918, 5.

This source was helpful for my paper because it provided me something to contrast the article "Avoid 'Flu' by Sterilizing Your Nose" with. It is an advertisement that is placed on the same page as the aforementioned advertisement and both claimed very different things. This source's intended audience was adults who were able to go to the drug store and purchase the drug being advertised. The sources validity comes from the fact that it is a first-hand account.

"Influenza Rapidly Spreads in Georgia." The Albany Herald, 4 October 1918, 8.

This source was helpful for my paper because it provided me with some preventative behavioral measures that health boards supported to protect one from influenza. The sources intended audience was adults who would then use the knowledge that the article provided to help keep their family safe from influenza. The sources validity comes from the fact that it is a first-hand account and because it is information provided by the state board of health.

"Spanish Influenza Epidemic Calls for Drastic Measures: Closing of Schools is

Recommended by State Health Boards." The Albany Herald, 8 October 1918, 3.

This source was helpful to my paper because it provided more insight into behavioral preventative measures taken to protect the populace against the spread of Spanish influenza. It's target audience is the entire populace because it is referring to closing down many different places of public assembly as measures to prevent the spread of influenza. The validity of the source comes from it being a first-hand account and because it is referring to information provided by the state health board.

"Spanish 'Flu' May Catch You." The Moultrie Observer, 8 October 1918, 1.

This article was helpful to my paper because it also emphasized methods that were supposed to be helpful in preventing and treating influenza. It was also very interesting because it provided some insight into the opinions that people had in the early stages of the Spanish influenza pandemic. In this article the author claims that the Spanish Influenza is not as much of a threat as it was rumored to be. The intended audience for this source was just the general public. The validity of the source comes form it being a first-hand account.

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Name of Paper The Noul trie Observer Date Oct, 8, 1919 Vol 25 Issue 23	584764
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1. Title: Spanish "Flu May Catch You Important	Page: _(
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Summary of Article: I panish Fly is not dangerous, the in Spain exaggerated because no kn that fast, Best treatment: rest in air abundant food, Dover's powders to Tells some Sources of the infection Keywords (no more than 10)-	For deaths reported newn disease spread bed, warmth fresh for plain relief.
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Name of Paper The Albanc Herald Date Oct 4 1918 Vol Issue 294
Influenza-Related Articles:
1. Title: Red Cross will help combat influenza Page: 3
Important Names
Summary of Article: The appointment of W. Frank Parsons by Red Cross as a director general of civilian relief.
Keywords (no more than 10)-
2.Title: Page: 8
Important Names Influenza rapidly spreads in Georgia
Summary of Article: Basic alle summanzes the infection virus.
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LUENZA RAPIDLY SPREADS IN GEORGIA

State Board of Health Issues Warning Against Epidemic-Proper Precautions and Treatment.

Influenza, which has been termed Spanish Influenza" during the resent epidemic, is not a new or mysterious disease, but is caused by well-known germs and is spread by fil-organized conditions. The epiemic now sweeping the country oust be intelligently met or a vast olf of suffering and many deaths vill result. Reports to the State Soard of Health stready show a considerable prevalence in Georgia, and since the disease is charactersed by its rapid spread, we must aumbers. This can be minimized by proper precautions and treatment. Pneumonia often compliintes or follows influenza, especialwhen treatment is not appropriate.

The onset is generally sudden and is often accompanied by weakmess, dizziness and pains in various ports of the body. Fever usually develops, the temperature rising to 103 and 104 degrees. Sore throat likewise experienced and sometimes bronchitis and broncho-pneumonia.

The disease is caused by the in-Suenza bacillus, a germ which has caused similar wide-spread epidemes in past years. This germ is sound in the secretions of the nose. mouth and lungs. Close contact with patients and their eating utenails, cups, handkerchiefs; *towels, etc., is almost sure to result in contraction of influenza. Spitting. coughing or sneezing by patients is also most dangerous to those near as the moist secretions, even in fine drops, contain the germ. Crowded rooms, public assemblages and cars should be avoided as much as possible. It may be stated that the germ does not live long outside of the body:

Treatment should consist of rest in bed, especially during fever warmth, fresh air, abundant, whole come food, and medicine for the rehef of pain and fever under the care of a physician whenever por sible.

During the disease handkerchiefs and linen contaminated by the patient should be disinfected by boiling water or soaking in a disinfectant solution, such as 5 per cent. earbolic acid or chloride of lime solution. To disinfect rooms after the disease, thorough cleaning, airing and sunning will be sufficient.

The enty of Montrea! brought a lot of steel several years ago to enlarge he city waterworks, but the underaking was postponed. Now the city



A scene from Act Two in "The 13th Chair," at the Auditorium Monday night, O tion is guaraideed you by Win. Har ris, Jr., Gottatowsky Bros, and everyone who has so

THEATRICAL

Al. G. FIELDS.

The public are seeking amusements and while they are discriminating in their choice, the sterling SURE RELIEF FOR attractions seem to be crowding the public into the theatres.

The Al G. Field Greater Min-strels a third of a century marks their trail-are gathering the shekels and pleasing the crowds as usual. The management advice this is the banner year thus far and that they have exerted themselves to put forth the best of all their proceeding productions scenically and in that i goes to make up a least and many strelsy affords, with a some of of mammoth property

It is clain on the end though effects, costuming and make in of the organ and that has been seen in minstrate.

Al. G. Field has ken taith with the public for so many years that all! are willing to accept his statements as to the excellence of as enterprise. When the min-trob come, next Tuesday right, Oct 8, the theatre will be cronded, as it always is.

"THE 13th CHAIR."

Theatre goers who have welted pas sold the steel at a profit of \$40. tiently for the coming of The 13th

James Adam, of Australia, and Henry Eve. ermuda, previously unacquainted? distored recently at a Toronto hotel.

ALL RHEUMATICS

If So Crippled You Can't Use Arms or Legs, Rheuma Will Help You.

If you want relief in two days swift, certain, gratifying relief, take a small dose of Rheima once a

If you want to dissolve every car in vois body and drave it out through the natural channel so that your will to free trong thempulses, get a double of Rhoanus from Romason Drog Co. or any druggist at object It must gue the joyful rebut expectal or money refunded.

Rheumatism is a powerful discase strongly currenthed is losts and muscles. In order to concuer it at powerful enemy must be sent against it. Rheuma is the any of Elitomation—an enem that quers it in nearly ever ludge John Barbors: F

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Influenza-Related Articles:
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2. Title: Now to Avoid influence Page: 5
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Summary of Article: NR-Toblets - climinates poisoners from ur system helps eliminate constipation, helps decrease the chames of getting influen
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AVOID 45 LUP BY STERILIZING YOUR NOSE

London Epidemic of 1891 Proved Ol. Bucalvoti (Bucapine Salve) Is Most Effective Preventive Known.

or if you have none, go to the nearor if you have none, go to the near-eat drug store at once and get a fam-ily jar of this well-known nose and throat sterilizer. Sterilize morning, noon and night by sniffing the Euca-pins up into the nostrils and rub a little on the back of your longue, whence it will spread to the throat and tonsils, thus sterilizing the nose and

The chief ingredient of Eucapine salve is Oleum Eucalypti, the nonpoisalve is Oleum Eucalypti, the nonpol-sonous antiseptic whose powes to pre-vent influenza was first discovered in the London spidemic of 1891. In addi-tion. Eucapine Salve contains just snough camphor; menthol and oil of frict will go over the top for a wide white pine to make it soothing, hear-margin above its quota not later than ing and delightful to use. Even the the second day bables enjoy it. Ask any well informed begins Nov. 11. physician and he will tell you that Eu-capine, though originally designed for director for the United War Work the mother's use with her children in Campaign, who attanded the rally colds, croup and to prevent preumonia, showed the gathering a map of the colds; croup and to prevent pneumonia, is the best and most agreeable antiis the best and most agreeable anti- state, showing that practically every septic you can use to sterilize the nose county in the state has completed its and throat of young and old airke. Any drug store can supply you for half a dollar.—Adv.

WHY RUN-DOWN PALE EXHAUSTED WOMEN SHOULD TAKE IRON

GETTING READY FOR DRIVE

Rev. Ashby Jones and Rabbi Marx Among Speakers.

Moultrie, Ga., Oct. 31 .- The United War Work rally which was held here to-day for the Valdosta-Moultrie district was the first of a series of such district rallies which are to be held in all sections of the state. The second rally will be held in Thomasville tomorrow, when the party of speakers hore to-day will speak again.

Every county in the Valdosta-Moultrie district was represented at the rally here. Committeemen and workers, both men and women, having come for miles around from the counties of Ben Hill, Turner, Irwin, Tift, Berrien, Cook, Colquitt, Lowndes and Echols. the second day of the campaign, which

organization, and said that the others will have been organized by the end of this wash.

were Dr. M. Ashby Jones, J. K. Orr, Rabbi David Marx and Mrs. E. P. McBurney of Atlanta. The party arrived here early this morning and were met by a local committee consisting of F. R. Pidcock, district chairman, ot F. R. Fideoek, district ensirinan, John W. Greer, county chairman; Mrs. W. A. Covington, county chairman for women's work; W. C. Vereen, W. J. Vereen, Dr. J. E. Hampton, master of the Baptist Church; Dr. R. M. Fegram of the Prestyterian thurth and

Chairman Pidcock presided over the conference, which was opened with singing and a prajer by for A W Reese. Judge W. A Coungity de livered a brief address of welcome

In the art noon Rabb) David Mark continue the pace it maintained and which the seven organizations working for the welfare and happiness of the the west constitutions and other in the case of the bast and South and for the welfare and happiness of the the west constitution. The west constitution in the property of the west constitution and other in the great takes region to increase

How To Avoid INFLUENZA

Nothing you can do will so effect-nally protect you against the Influence or Grippe pidemic as keeping your organs of digestion and elimination active and your system free from poisonous assumulations.

Doctors and bealth authorities everywhere are warning people of the danger of constipation, and advising, and urging everyone to see that the bowels and other eliminative organs act freely and regularly.

Ordinary laxatives, purges and cathartics, salts, oils, calomel and the like, are good enough to clean out the system, but do not strengthen the weakened organs; they do not build up

Why don't you begin right today to overcome constipation and get your system in such shape that you can feel

reasonably sure of resisting disease. You can do so if you will just got a 25c. box of Mature's Remedy (NR Tablets) and take one each night for a while.

NR Tablets do much more than merely cause pleasant, easy bowel action. This medicine acts upon the digestive as well as eliminative organs, promotes good digestion, causes the body to get the nour-ishment from all the food you eat, gives you a good, hearty appetite, strengthens the liver, overcomes biliousness, regulates kidney and bowel action and gives the whole body a thorough cleaning out. This accomplished you will not have to take medicine every day. An occasional NR Tablet will keep your body in condition and you can always feel your best. Sold and recommended by druggists.



Tomorrow Alright Get a 25 Box

Jones hald, will be the office of the Mr. Hurley, "that our shippards will, Jones said, will be the omes of the Mr. Hurrey. That our snipyards will all and are Antann Spain, deal supply the medium of bruging he they must not fet up. The inefficient residence, 218 Checkherpe avenue, who sack from the army to dealian like to preven the gulf will in operate because he war emergency like to preven the gulf will in operate because he war emergency by the must separate the soldier and the immediate need of ships, will, from the civilian under a regime of as a matter of business expellency. inilitarism. Dr. Jones laid vast import drop but when the energency is re-tance by the United War Work Fund moved: Efficient yards will be enfor this burbone.

the city

moved: Efficient yards will be en-At soon a splendid luncheon was can depend upon them to carry out reryed the Atlants parts and the dist their promises and produce ships ecotric delegates in Moultries handsome nomically. The work medicient varies Y. M. C. A. liding by the ladies of cannot do will fall to other plants. We will look to the West coast to

fluence, followed by pneumonia, with resulted in his death on Wedness Oct. 28. Mrs. Dieckmann is ill at home in Oakland, Cal., with influe she will be remembered in Savannal Miss Mary Hopps, daughter of Dr. Mrs. D. R. Hopps.

Archie McBride, Aiston.

Alston, Ga. Oct. 31. Archie McBr aged 74, died at the home of his C. L. McBride, after an illness of i eral days. The deceased was a m ber of a prominent family and is ber of a prominent family and is vived by the following children: I Mary Hutceson of Jeff Davis ceu J. C. and D. R. McBride, Youngsto Pa, G. W. McBride, Dothan, Ala. E. W. McBride, Camp Upton, N. J. terment was in Sharp Cemetery, I Alston.

Lewis, C. Sims, Jr.

Lewis C. Sims, Jr. 18-months yesterday morning at their home. Best street; after a week's illness influenza: The funeral will be ! this morning at 10 o'clock from 1 derson Brothers, and the Interment be in Laugel Grove Cemetery. John S. Wilder will conduct the vices. .

Funeral of Joseph Goldberg.

Funeral services for Joseph Goldbi who died Wednesday, were held ; terday afternion at 3 o'clock in Bo venture Cemetery, conducted by Rs Lavine and Rabbi Palitz of the C gregation, B B. Jacob The pallbeat were A. Rauzin, M. Rothenberg, I. (Heb. Sot. Bradley, J. Bichmond and Bichmond.

lvy Bridges, Valdosta.

Valdosia, Ga . Oct 21 2-1vy Brids aged 19 years, died vesterday morn at the residence of his aunt. Mrs. Bridges. The Temains were taken Sylvania, near Sporks, for intermitids morning. The young man is a rived by his mother and fathet, and Mrs Edgar Bridges of Sparta. five sisters and six brothers

Arthur Nikro, 11 months old son Mr. and Mrs. Authory Nigro, died y

my training outh may be R Shillady. Association ! olored Peo day a letter certain that the part of ay rve to legar right." recent order ealling on and every fass to super-

any of our truly be a democratic g an expen-

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The o Derifu Zeitung pub-monstrations udapest An and officers parading the

is expected ports receivin course of

The people ieir , imperial colors. sadded, gov-

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nna dispatch according to the kingdom n proclaimed at the assas-Ferdinand

Franz Ferdi. Sarajevo in ment of the

Jarolina.

-Thousands ilroad tracks, ghways have ers in the ex-North Carohardest hit, ania division since Sunday.

Very III.

rman Empress ccording to a Petit Journal, tunted by the revolution and a of the Em-

eciated

A new company is being formed, with a capital of \$268,900, subscribed in Desmark and Norway, to build a factory at Embjerg, on the west coast of Denmark, for canning fish for export. The manager of the company

HEALTH BOARDS GIVE WARNING OF INFLUENZA DANGER

have been so Ask People to Be Careful and Take Proper Treatment Promptly. Many Pneumonia Cases Follow Influenza. What to Do:

> To be prepared for the serious outtreaks of influence and Pacumonia that are now sweeping sweet the entire country and that have beined on this community Public Health Boards everywhere are issuing califfines and instructions to the public mot to neglect treatment at the first ayantom of a cold and to co-operate with health boards and physicians in stantoing out the spread of the disease.
>
> No disease develops so quickly or spreads so rapidly. The first symptom usually is a sharp rise in temperature to 103 or 104 degrees, headache, pain in the back, throat feeling dry or sore Uniess promptly checked by proper treatment, the best plan is to go to feel and stay there for at least a week,

and stay there for at least a

and stay there for at least a week, keeping warm to avoid pneumonia and let the minor allment run its course and also to prevent the spread of the disease to others.

Most of us, in these busy days, cannot afford, if it can be avoided, to lose a week or more of work, so it is 'all the more necessary that at the very first sign of grip or influenza a counter-acting treatment should be taken.

Probably no better or more effective treatment could be followed at such a time than to get from the nearest drug store a complete Hyomei outfit.

drug store a complete Hyomei outfit consisting of a bottle of the pure Of of Hyomei and a little vestpocket, hard rubber inhaling device into which a few drope of the oil are poured.

Put the inhaler in your mouth and breathe its air deep into the passages of your nose, throat and lungs. Every particle of air that enters your breathing organs will thus be charged with an antiseptic healing balsam.

You can't do this too often. The Hyomei Inhaler is small and can be conveniently carried in a hand-bag or

conveniently carried in a hand-bag or in your vestpocket. Every half hour or so throughout the day take it out and draw a few breaths of its pure healing air into your nose and throat. The outfit is not at all expensive for the rubher inhaler will last a lifetime while the Oil of Hyomei can be obtained at little cost from any reliable druggist. Lots of people already have a Hyomei Inhaler. Take it out, charge it and use it without delay. If you haven't one get it to-day.

A few cante spent new may easily provent across illness and save you many deliars and help stamp out the correct of the disease. Knight Drug Chamady.

YOUR OWN!

Or. SELL the Savannah Morning New EARN GOOD MONEY—then, as vo ings in THRIFT STAMPS, thereby support your big brothers and friends

Good TRAINING for a boy, selling corners, or handling a paper route! ! men GOT a START that way! Tea Gets him in the way of THINKING

Even RICH men's sons sell papers a peratic land. It's an honorable and s the best families are glad to see their Son, the Morning News can use YOU

Call at Savannah Morning News, Circ see J. P. Kenney or E. C. Keeling



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Asiago, rom the e operaPollow the Suggestions Here and Lacape Serious Ilinese.

When you feel feverish or as if you Bosphor-ly allied are taking cold and you start sneez-ing and your nose begins to run, you've ereto(ore surely got influenza germs working in warships you and you should immediately take at in the a few doses of Dr. Williams' No. 101 Russian Tonic and escaps a spell of illness and loss of time in bed. It is just what you cases the need at that time and !! works wonderfully well—and quickly, too. The quinine in it kills influenza germs without mercy. The iron ingredientente, fold gives appetite and restores your "pep" s against The magnesia acts on the liver and ar. Like bowels, eliminating poisonous gases a Turkey and excretions and making the body to the clean and wholesome. Dr. Williams' likely to No. 101 Tonic is a ready prepared prescription of a noted physician, the late Dr. G. B. Williams, of Quitman, Ga., onditions and has been extensively used for malaria, grippe, colds, chilis and fevers. Get a bottle at once and begin taking it and make yourself immune from the "flu." All druggists and drug dealers sell it or can get it for you-25c and 50c a bottle. Refuse all substitutes. -Adv.

> tions, pur troops fighting on Italian soil will evacuate occupied regions.

"In the Italian theater there has been only minor fighting activity on the Tyrolean front Between the Brenta and the Piave fresh and superior enemy forces attacked Monte Alsone and Monte Pertica. Our troops with unexampled and soldierly faithfulness brought all the enemy's attempts to naught."

Austrians Withdrawing.

Vienna, Oct. 30 (via London, Oct. 31).

—Austro-Hungarian forces on their gastern wing in Serbia are withdrawing from occupied terriffry and have completed the crossing of the Danube, according to an official statement tonight from Austro-Hungarian head-quarters. Elsewhere in Serbia the Austrian withdrawal continues. The statement reads:

"Southeastern theater: The eastern wing of our forces is evacuating Ser-bia and already has completed the evacuation to the northern bank of the Danube. Our rearward march to-ward the Save and the Drina continues, according to plan. The enemy follows nowhere. The rear guard of our Albanian forces has only had to repulse isolated bands." repulse isolated bands.

A Berlin Report.

Berlin (via London), Oct. 31 -The repulse of violent attacks delivered by the French yesterday in the re-gion south of the Oise river is re-ported by German army headquarters in its official statement to-day. Tentative attacks by the Belgians on the Flanders front were stopped, the statement adds. There was an inPershing's communique for to-day

"On the Verdun front there was heavy artillery and machine gun fire during the night on both sides of the Meuse. North of Grand-Pre our troops advanced their line and occupied the Bellejoyeuse farm:

"Testerday our bombing units attached to the First and Becond armies carried out a number of successful raids, dropping six tons of explosives on Barricourt, Bayoneville and Longuyon."

guyon.

Enemy Machines Driven Down. London, Oct. 21.—Sixty-four enemy machines were destroyed and fifteen others driven down out of control on the western front Wednesday, says an official communication issued to-night,

dealing with aerial operations.

The communication says:

There was intense activity yester-day over the whole of the front. Six-

ty-four enemy machines were destroyed and fifteen driven down.

"Including two machines destroyed on the ground, the total of sixty-six German planes known to have been accounted for without considering those driven down, establishes a record, for one day.

ord, for one day.
"This was accomplished with proportionately small loss. Eighteen of our machines are missing."

Americana Get Bellejoyeuse Farm.

With the American Forces North-west of Verdun, Oct. 31, 7 p. m. (by the Associated Press).—Gen. Pershing's forces to-day occupied Bellejoy-euse farm and the southern edges of the Bois des Loges. The Americans encountered but little machine gun opposition.

The advance was in the nature of

a long straightening operation.
Otherwise the activity along front to-day consisted principally of reciprocal artillery firing and bomb-

Rioting in Budapest.

Amsterdam, Oct. 31.—Grave rioting broke out at Budapest on Wednesday. according to news reaching here to-day from the Hungarian capital. Mobs looted the stores and attacked the banks which have limited payments to one hundred crowns.

Plenty of Fuel Wood.
With the American Army in France, Monday, Oct. 28 (by the Associated Press).—American fighting men at the front are to keep warm this winter. The forestry section of the American expeditionary force has promised to deliver on the road ready to be hauled to the men at the front before Jan. 1, 100,000 cubic meters of fuel wood. This is equivalent to a pile of wood. This is equivalent to a pile of wood a yard wide and a yard high stretching from Paris to Berlin.

Thousands of foresters are now busy in the French forests gathering and cutting the wood, which comes from dead wood and refuse in the forests. The fine trees of which the French are

so proud are not being cut.

Ersberger is Appointed.

Amsterdam, Oct. 31 .- Prince Maximilian, the German Chancellor, has signed a decree entrusting Mathias Erzberger, as deputy imperial chancellor. with control of the war press depart-ment, according to the Vossische Zeitung of Berlin.

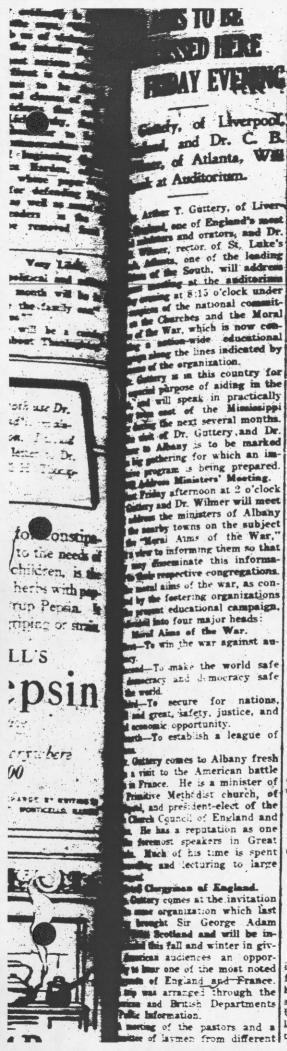
Advance from the Pinve.

Start to-War Say



Name of Person reading/noting microfilm:
Newspaper Notes form for History of Disease Class If you need more forms to Archives. If you have more than will fit on this front and back form, simply use another form, with the same date and call it part two.
Name of Paper The Albana Herald Date 001.8 1918 Vol 37 Issue
Influenza-Related Articles:
1. Title: Spanish Influenza Epidemic Calls for Drostic Page: 3
Important Names Closing of schools is recommended by state health board
Summary of Article: Georgia state board of health - immediate closing of public places. Attenta-closed down Prevention measures given.
Keywords (no more than 10)-
2. Title: Spanish Influenza has Spread All over Page: 3 Important
Summary of Article: 50,000 Cases reported in the both
Keywords (no more than 10)
3.Title: Page:
Important

Names



Spanish Influenza Epitlemic Calls For Drustic Measures

COSME OF SCHOOLS S RECUERTORD BY STATE BEALTH BOARD

> Churches, Theatres and Other Type Public Gathering Places Included Measures for Prevention Recommended

ers and orators; and Dr.

at the auditorium

s of the national commit-

New Ministers' Macting.

ATLANTA, Ga., Oct. 8.- Immediate closing of schools, churches, theaters and other places of public assembly in communities threatened by an epidemic of Spanish influence is recommended today by the Georgia State Board of Health, and it is understood that a number of cities and towns are planning to put this suggestion into effect without delay.

Atlanta Closes Up.

Steps were taken yesterday afternoon by the Atlanta Board of Health to close all places of public assembly in Atlanta as a measure of precaution against a possible epidemic of the disease in this city. Although Atlanta has fortunately escaped with only a few cases up to date, the infinenza is rapidly spreading at Camp Gordon.

The United States Public Health Service on yesterday wired the State Board of Health, strongly recommending that places of public assem bly be closed wherever an epidemic was threatened, and the state authorities at once passed on the suggestion to the local authorities throughout the state.

Preventive Measures.

Measures recommended for prevention are as follows:

1. Use individual drinking cup. Sleep in well ventilated room, or preferably on sleeping porch.

3. If attacked by severe cold or grippe, go to bed at once and stay there until completely recovered.

4. Keep offices and other places of employment well ventilated.

SPANISH INFLUENZA HAS

Churches, Schools, Theatres and Other Places of Public Gathering Have Been Closed in Almost Every City of Any Size.

Unofficial reports from a score of the it was said. larger cities in the South show more the of laymen from different than 50,000 cases reported among

THE REAL PROPERTY.

But Public a Cautioned to Take Measures to Prevent Spread.

Spanish influence! Have you not it, yat?

It's going the rounds of Albany and many are being class tims of the mild type this city has secured.

Yes, it seems to be a selld type, fortunately, and so far, mobory has been dangerously ill as a result. Still, there is danger, the declares say, and the disease is not one a

say, and the disease is not one as person should sack as a form of pleasure or excitement.

Reports from different physicians in the city hydicate that there are several hundred capes of the disease in Albany. As absordy stated, none of these cases: live taken a very serious turn, and so far as it income turn, and so far as it income turn, and has developed into known, not one has developed into premonie

Precaution is urged upon the peo-ple of the city, however, that the spread of the epidemic be as limited as possible for there is no assurance that the type prevalent here will continue to a mild one or that there will be no presuments as a conse-

Those who have been expected to the malady are urged to heep their noses and throats sprayed. Others are instructed to observe entitary precautions, such as failure to use the same drinking vessels as others, to stay clear of close and stuffy rooms and to get all the fresh ser and supshine possible. Some have niged the closing of the schools and all other places of public gathering until the epidemic has been brought under con-

Many Deathe In Ohio. COLUMBUS, Ohio, Oct. 8.—The SPREAD ALL OVER SOUTH epidemic of influenza is increasing rapidly in Ohio, and a total of 25,000 cases and many deaths have been reported to date.

Camp Sherman reported deaths for the 24-hour period ending at 3 p. m. yesterday.

St. Louis Closes Up.
ST. LOUIS, Mo., Oct. &-In an effort to allay the Spanish influ-enza epidemic, all churches, thea-ATLANTA, Ga., Oct. 8.—Spanish closed today, and all public gatherschools and cabarets influenza, which started in poidemic ings, including public funerals, for-form in the East a month, to, now bidden by order of the health au-has spread throughout the South, de-thorities. The order will remain in spite drastic action of health officials. effect until the epidemic has passed,

The Retort Courteous.

State: Will 94 " Camp Wheel trial Call for

The local board r to be sent to the G Tochnology for a w No quota is specifici state is to send the and induction will be from the various I cept that of Sapten man White announce that no man register will be included in t that none seek to be

On October 16 Ge to send Mitoun h ified for goneral sti Camp Wheeler, the roldntary induction. called on to futilish Dooly, 12; Early, Lowndes, 29; Mille 18; Quitman, 3; Rin art, 26; Sumter, Thomas, 29; Tift, Webster, 8; Worth,

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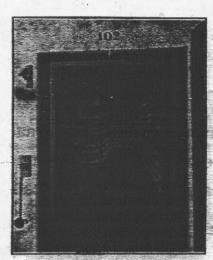
Prevention and Treatment

Mixed bacterial vaccines for the prevention and treatment of common colds and influenza were first produced commercially in the United States by the Mulford Laboratories, in 1910. Since its introduction, the formula of Mulford Influenza Serbbacterin Mixed has been maintained unchanged.

During the influenza epidemic of 1918, additional strains obtained from virulent cases in different parts of the country were added. These strains include:

Influenza Bacillus (Pfeiffer).
Streptococcus (hemolytic and viridans).
Staphylococcus (aureus and albus).
Pneumococcus (types I, II, III, IV).
Micrococcus catarrhalis.
Bacillus Friedlander.

The experience of physicians who used **Mulford Influenza Serobacterin Mixed** in industrial institutions and private practice confirmed their belief in its efficiency, both as a prophylactic and therapeutic agent.



Section of Incubator for growing bacteria.

Influenza Serobacterin
Mixed
is supplied as follows:

M 109-0—4-syringe . . . 1 immunization.
M 109-9—5-mils . . . 2 immunizations.
M 109-4—20-mils . . . 8 immunizations.

As immunity is only relative, there is an advantage in four injections, beginning with a small initial dose, progressively increased, thus affording a more complete, and lasting immunity.

Always specify "Bulford" on your orders and prescriptions



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Manufacturing and Biological Chemists

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during this time were not due to malligancy. Therefore, we accomplished something more than controlling the hemorrhages-the pathology which causes these uterine hemorrhages was destroyed, which might have resulted in cancer in the future if left alone.

None of the non-malignant cases treated by Radium have had malignancy to date.

This report runs over a period of three years.

INFLUENZA VACCINE.

E. C. Rosenow and B. F. Sturdivant, Rochester, Minn. (Journal A. M. A., Aug. 9, 1919), report their experience with prophlactic vaccine prepared at Rochester. Influenza bacilli were numerous at the beginning of the epidemic, but were rarely found later in its course. They were, therefore, left out of the later vaccine, which contained a higher proportion of the green-producing streptococci. The formula of the vaccine, as finally used, is given. The concentration was twice as great as at first, and the quantity of liquid reduced one-half. The injections were given subscutaneously one week apart. The results were obtained under the most varied conditions, as reported by the physicians to whom the vacine was sent for testing. In some places, the mortality was excessively high, and in others comparatively low, but the number of inoculations was such as to make the statistical figures fairly dependable. The observations were reported over a period of from three to seven months. While the incidence of influenza and pneumonia reported is probably inexact, the error should be about the same in the vacinated and unvacinated groups If there is any difference, the number of cases reported among the vaccinated is likely to be proportionately higher than that of the cases in the unvaccinated group, as the occurrence of influenza after vaccination would naturally tend to a higher percentage or re-

49

ports to the physicians who gave the inoculation. The average incidence of influenza and pneumonia is the group inoculated three times is about one third of that in uninoculated persons. The average mortality among the latter, according to the statistics sent to the authors, approximates the mortality rate (5.4 per cent.) from the epidemic in sixteen large cities of the U.S., as given in the Public Health Report, February 7: while that amongst the group inoculated three times is about one fifth of this. A definite, though smaller, rate of protection seemed to be offorded by only one or two inoculations. In a series of hospital ctses of influenza, the tendency to develop pneumonia in the vaccinated was about one third of that in the unvaccinated. While the number of completed vaccinations in pregnant women was not large enough for exact figures, the indications are clear that a definite degree of protection was afforded, and from all the facts obtained it seems evident that with the use of a properly prepared vaccine it is impossible to rob influenza of some of its terrors. From the data obtained by Fennel and Cecil and Vaughan from the use of lipo-vaccines in pneumonia, it is strongly suggested that still better protection than that obtained by the use of saline vaccines, as reported in his paper, is possible.

PROPHYLACTIC VACCINATION AGAINST INFLUENZA

G. W. McCoy, Washington, D. C. (Journal A. M. A., Aug. 9, 1919), reviews the varied opinion as to the etiology of influenza and influenzal pneumonia. Although the Pfeffer bacillus is commonly known as the influenza bacillus, there is really no convincing evidence of its causal relation to the disease, and, moveover, it includes a number of organisms varying in pathogenicity. As regards influenzal pneumonia, we find a rather general opinion that itis due to Pfeiffer's bacillus, or to a secondary invasion of acknowledged pathogenic organisms, particularly the variouus types of pneumococci, the streptocci, especially those known as hremolytic, and less commonly, Friedlanders pneumobacillus or

the staphhlococcuus. The organisms in influenzal pneumonia, as a rule, do not conform to the general type associated with pneumonia, and the disease can be differentiated from those ordinarily due to the pneumococcus of labor pneumonia. Immunization against the latter would appear to be of little value as affording immunization against the influenzal type. The vaccine from the influenza bacillus alone seems to have been used largely only in New England, and if the figures as to its use are carefully examined, its value would seem very dubious. Most of the inoculations were made during the epidemic, and the case incidence among the vaccinated was compared with that in the general population or of the control groups from the beginning of the epidemic. To make clear the error in this, "let us suppose that ten days after an epidemic started in a population of 1,000 persons, an admittedly worthless vaccine was administered to one half of those who at that time remained unattacked by the disease. Let us further assume that on the date of vaccinaion, 20 per cent. of the population had sickened, leaving 800 well persons, of whom 400 were vaccinated. Since the hypothetic vaccine is worthless, the morbidity of the disease will be as great in the vaccinated as in the nonvaccinated group. Let us assume this to be an additional 20 per cent. Then the total morbidity in the vaccinated group will be 20 per cent. of 400, or eighty cases. The total morbidity in the unvaccinated group, however, if we consider the entire period of the epidemie, will be 20 per cent. of 1,000, or 200, plus 20 per cent, of 400, or eighty, which would make 280 cases." Reports have been made, however, based on assumptions which would make the hypothetically worthless vaccine seem a valuable prophylatic. McCoy gives examples showing the failure of the influenza bacillus vaccine as a prophylatic, passed on to the vaccines made from the streptococcus and other organisms, and discusses their value. The impression is left that they may be of value, but that whereever they have been tried under perfectly controlled conditions, they fail to influence. definitely, either the mortality or the morhidity of the disease.