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**FAILED**

to get relief in any other way, are invited to investigate Chiropractic methods, which are permanently curing hundreds every day.

Chiropractic is the Safe, Sane, Sure and Modern science of curing and preventing disease.

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## PACIFIC CHIROPRACTIC COLLEGE

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# LOSSES THROUGH SWINE DISEASES

Cholera, Tuberculosis and Parasites Are Drawbacks.

## SIMPLE METHODS ARE URGED

Farmer May Avoid, to Large Extent, Decimation of His Herd by Epi-zootics—Sanitary Preventive Measures Are Favored.

Hog cholera and swine plague, both highly fatal diseases characterized by fever and heavy mortality, are so very similar that the breeder may regard them as identical so far as his practical management of the herd is concerned. Positive differentiation between the two diseases can only be made by the most careful bacteriological tests, and by employing the assistance offered by a fully equipped laboratory. However, sanitary preventive methods which are found beneficial with one of these diseases will prove equally efficacious with the other.

There are a few fundamental facts which the breeder must remember if he is to avoid losses through hog cholera or swine plague. The first is that they are specific diseases caused by germs, and the contagion cannot be spread from one animal to another or from one herd to another except through the agency of these minute organisms. They may be carried in a multitude of ways—by the hogs themselves, on the clothing of persons, on vehicles, in feed, by birds, dogs, and other animals, or by streams. The breeding or feed of a hog cannot cause either disease, although bad methods may so weaken the constitution and vitality that the animal becomes more susceptible to them than would otherwise be the case. Since these diseases can only arise from the presence of these specific causative agents, it can readily be seen that dentition and the presence of supernumerary teeth or black tusks cannot, as has been suggested by many, play any part in their development. A second fact to be borne in mind is that diseases caused by germs may be best prevented or controlled by thorough disinfection and scrupulous cleanliness.

**Tuberculosis Increasing.**  
Tuberculosis is rapidly increasing among hogs in the United States, and every owner of swine should be on his guard against the introduction of this serious malady upon his premises. Unlike hog cholera this disease is incipient in its attack and slow in its development, so that it may be present for months in a herd without exciting the least suspicion of the owner, and will be revealed to him only at the time of slaughter. Until recent years tuberculosis has been looked upon as of uncommon occurrence and only of importance from a meat-inspection standpoint; but today it must be recognized as a serious menace to the owner of hogs, and especially to the one who allows his hogs to run with cattle that have not been proved to be free of tuberculosis, or who feeds them upon nonsterilized products as part of their ration. As tuberculosis of hogs is chiefly contracted through eating infected feed, the importance of this statement is obvious.

Tuberculosis of hogs is closely associated with the same disease in cattle, the reason being apparent when one considers the close relations of these two species of animals upon nearly every farm. Tuberculous cattle may scatter great numbers of tubercle bacilli with their excrement; cows that are tuberculous may produce contaminated milk that is subsequently fed to pigs; and carcasses of cattle that have died from tuberculosis are sometimes eaten by hogs.

Any of these conditions make the infection with tuberculosis of the hogs concerned a very easy matter.

**Sources of Infection.**  
The feeding of hogs upon creamery refuse is also a very frequent source of infection. In this way the milk of a single cow with a tuberculous udder, if sent to a public creamery, may spread the disease to a number of hogs, and may also infect many farms that have never previously been contaminated with tuberculosis.

An equally dangerous source of infection is likewise observed in the methods which obtain among some of the small country slaughter houses. It is not unusual for these houses to get rid of their blood, intestines, viscera, and other inedible parts by feeding them to hogs, a herd of which is usually kept on the premises. This custom is pregnant with danger and serves to perpetuate the infection principle of various contagious and parasitic diseases, particularly tuberculosis.

Hogs are also susceptible to tuberculous infection from affected persons and poultry, but these sources are undoubtedly of far less moment to the hog owner than those existing in a herd of tuberculous cattle.

**Prevention of Disease.**

In dealing with the diseases of hogs, preventive measures must be most rigidly observed. The animals must be given dry and well-ventilated quarters, which must be kept clean. Contrary to common belief, hogs have some habits which raise them above other domestic animals from the standpoint of cleanliness. For example, unless compelled to do so, a hog will not sleep in its own filth. If a part of the floor of the pen is raised and kept well bedded with straw, while the rest is not, all excrement will be left on the unbedded portion of the floor and the bed itself will be always clean.

In addition to cleanliness close attention should be given to the feed, so that nothing may be fed that will convey the germs of disease, especially tuberculosis, to the herd. If the hogs are fed milk in any form obtained from cows kept upon the same farm, the cows should be subjected to the tuberculin test. If they run with the dairy cattle of the farm a tuberculin test of all the cattle is none the less desirable. Animals dead from any disease should not be fed to the hogs until the meat has been made safe by cooking. Skim milk or refuse from a public creamery should not be fed to hogs until it has been thoroughly sterilized.

Feeding and drinking places should be clean and the water supply pure. Unless the origin is known to be uncontaminated and there has been no possibility of infection during its course, hogs should not be allowed access to any stream. Wallows should be drained out and kept filled up as much as possible. At least once a month the quarters should be disinfected with air-slaked lime or a five per cent solution of crude carbolic acid. These precautions will be found valuable aids in the destruction of the various animal parasites.

**Advantage of Isolated Hog Houses.**

The advantage of isolated hog houses, each accommodating a few hogs, rather than one large piggery for the entire herd, has been referred to previously. In districts where cholera is prevalent these are undoubtedly the best shelters. They make it more difficult to carry contagion to all animals in the herd, and the destruction of one of them in case of an outbreak does not entail a great expense. An added advantage is that they may be moved from place to place as needed. While more work is necessary in feeding, the convenience and safety from their use more than offset this disadvantage.

# SUFFERING FROM COLD

If you shiver in frosty weather, if you have cold hands and feet, if colds are stubborn and frequent, then your blood may be thin and impoverished.

## SCOTT'S EMULSION

has been correcting this condition for nearly fifty years. It possesses rare powers for creating natural body warmth, for charging summer blood with winter richness and strengthening both throat and lungs.



The Norwegian cod liver oil in Scott's Emulsion is now refined in our own American laboratories which makes it pure and palatable. Scott & Bowne, Bloomfield, N. J. 17-17

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Sore Eyes, Eyes Inflamed by Sun, Dust and Wind quickly relieved by Murine. Try it in your eyes and in Baby's Eyes.  
No Smearing, Just Eye Comfort  
Murine Eye Remedy At Your Druggist's or by mail. 50c per bottle. Murine Eye Salve, in Tubes 25c. For Hook of the Eye—Free. Ask Murine Eye Remedy Co., Chicago 4

### A Blow for the Bench.

The judge (to jury who have retired several times without agreeing)—I understand that one jurymen prevents your coming to a verdict. In my summing up I have clearly stated the law, and any jurymen who obstinately sets his individual opinion against the remaining 11 is totally unfit for his duties.

The Solitary Objector—Please, m'lud, I'm the only man who agrees with you!—Passing Show.

To keep clean and healthy take Dr. Pierce's Pleasant Pellets. They regulate liver, bowels and stomach.

### Not So Bad.

Mrs. Suburbs was on the way home from the musical show. "I think," she said primly, "that those ankle watches are positively immodest."

"How can you say so?" replied Mr. Suburbs soothingly, "the ankle watch is very modest. It keeps its hands before its face all of the time."—Exchange.

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she would ask for outside support for her over-worked organs of milk-production. Try KOW-KURE; it works with great tonic effect on the system, prevents disease, a sure remedy for Abortion, Sterility, Retained Afterbirth, Scouring, Lost Appetite, Bunches. Buy Kow Kure from feed dealers and druggists. DAILY ASSOCIATION CO., 1901 Third St., Lyndhurst, N. J.

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**PORTLAND SEED CO.**

**IRRITATING COUGHS**  
Promptly treat coughs, colds, hoarseness, bronchitis and similar inflamed and irritated conditions of the throat with a tested remedy—  
**PISO'S**

# LESS MEAT IF BACK AND KIDNEYS HURT

Take a glass of Salts to flush Kidneys if Bladder bothers you.

Eating meat regularly eventually produces kidney trouble in some form or another, says a well-known authority, because the uric acid in meat excites the kidneys, they become overworked; get sluggish; clog up and cause all sorts of distress, particularly backache and misery in the kidney region; rheumatic twinges, severe headaches, acid stomach, constipation, torpid liver, sleeplessness, bladder and urinary irritation.

The moment your back hurts or kidneys aren't acting right, or if bladder bothers you, get about four ounces of Jad Salts from any good pharmacy; take a tablespoonful in a glass of water before breakfast for a few days and your kidneys will then act fine. This famous salt is made from the acid of grapes and lemon juice, combined with lithia, and has been used for generations to flush clogged kidneys and stimulate them to normal activity; also to neutralize the acids in the urine so it no longer irritates, thus ending bladder disorders. Jad Salts cannot injure anyone; makes a delightful effervescent lithia-water drink which millions of men and women take now and then to keep the kidneys and urinary organs clean, thus avoiding serious kidney disease.—Adv.

### A Man of Few Words.

Walter L. Ball of Muncie, former state senator and recently republican candidate for the 8th congressional nomination, has a farmer client he will pit against the world for fewness of words. Seeing Farmer X in the street the other day and knowing that Mrs. X had been ill, Mr. Ball inquired of the husband: "Well, Jim, how's the wife today—any better?" "Nope." "Any worse?" "Nope." "Just about the same, eh?" "Nope." "Well, how is she, then?" "Dead."—Indianapolis News.

Constipation can be cured without drugs. Nature's own remedy—selected herbs—Is Garfield Tea.—Adv.

### More Trying Position.

Newriche (to prospective butler)—A hundred dollars a month? Why, that's all I pay my bookkeeper.  
Butler—But 'e doesn't ave to associate hevvy day with your family, sir.—Exchange.

Constipation, indigestion, sick-headache and bilious conditions are overcome by a course of Garfield Tea. Drink on retiring.—Adv.

Hose-Anna and Such Tunes.  
She—Do you play on the piano?  
He—Occasionally. I am a fireman.  
—Boston Transcript.

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Now in demand by the Railroad Companies. My course will fit you for any of the above positions. Course by mail if desired.

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Thousands of trained young people needed. Behrke-Walker Business College, Portland, places students in positions. Enroll any time. Free Catalogue.

### Similarity.

"You say Graftor makes you think of a corkscrew. Why so?"  
"Like a corkscrew he has a pull, but it's on account of his crookedness."

## SHIP

Veal, Pork, Beef, Poultry, Butter, Eggs and Farm Produce.

to the Old Reliable Everding house with a record of 45 years of Square Dealings, and be assured of TOP MARKET PRICES.

F. M. CRONKHITE

5-47 Front Street Portland, Oregon

P. N. U. No. 3, 1918.

## DRAIN WET SPOTS ON FARMS

Productive Acreage Can Be Increased by Drainage—Can Be Made to Return Good Profit.

The production acreage can be increased on many farms by drainage. Many wet areas are being cultivated which do not produce profitably and are often a hindrance in planting and proper cultivation of the rest of the field. These places are found along the creek bottom, and on seepy hill-sides. They are very fertile and can be made the most productive part of the farm by tile drainage.

### Clean Water for Fowls.

A good supply of clean water should always be before the fowls and chicks, for a large part of the body of a fowl is water and a steady supply of good quality is needed.

### Lessen Wireworm Damage.

If practicable, grow field peas or buckwheat on sod land before planting it to corn, to lessen the damage due to wireworms.

## LARGE FARM MACHINES BEST

Make Seed-Bed Preparation More Timely and Economical—Also Increases Farmers' Efficiency.

The use of large farm machines makes seed-bed preparation more timely and more economical, increases the farmers' efficiency, reduces man-labor requirements per acre, results in better quality of work, makes large-area farming possible and profitable and farm life more satisfactory and more enjoyable.

### Put Machinery in Order.

Put the farm machinery in first-class order during odd times this winter. An hour spent in repair may prevent later on a day of despair.

### Disinfect Hen House.

Frequently disinfecting the poultry house will do considerable to prevent the development of diseases.

Keep the hens in laying trim. Their "shells" are valuable food ammunition.