PAPER ON TUBERCULOSIS

Valuable Information Afforded by Mr.

David McCrae's Essay.

ORIGIN AND NATURE OF THE DISEASE The following extracts are taken from a paper on "Tuberculosis in Cattle," read by David McCrae, of Guelph, at a Farmers' Institute meeting. He has freely used a work of a French scientist of well known reputation. Prof. Ed. Nocard, which has been recently translated, and is the latest scientific work on the subject.

Tuberculosis is no new disease. When it began its ravages no one knows. It was known to the ancients, and its various manifestations among cattle were described many centuries ago. It is frequent among pigs, and rarer among sheep and goats. It is not common among horses, but if a horse contracts the disease it runs a rapid course and soon becomes generalized and fatal. Giraffes, antelopes, llamas, gazelles, etc., in zoological gardens are decimated by it, and it is the one disease that kills nearly all the monkeys brought to Europe. Among the birds of the poultry yard the disease is very common, and often assumes an epidemic character.

demic character.

The tiny organism, which is only one-ten-thousandth of an inch long and one-fifty-thousandth of an inch long and one-fifty-thousandth of an inch wide, is a slender rod-like body will all one of the control of the

all the appearance of health, and it may exist for months and, years without causing one to suspect its existence.

In them it may escape the most careful examination, even at an advanced period of its existence. It may attack any of the organs of the body. About twenty per cent, of cattle slaughtered with it have it in their lungs, about the same number have it in the lymphatic glands, others in the liver, the intestines, the spleen, the bones, the joints, the udder, the skin, etc. Naturally the symptoms of the disease vary greatly according to the organ or organs attacked. If the lungs be attacked, there is usually a cough at long intervals; the cough is a slight one, dry, a little whistling, and in short paraxysms. It may be noticed when the stable is opened in the morning, after drinking, or when the similar rises. If taken out and given a quick run it may cough. As the disease progresses coughing may become more frequent; while not throwing out the mucus the animal may be noticed swallowing it. The skin loses its kindly feel, and the hair becomes dull and dry. The cow stands with her elbows out, and there is sometimes a peculiar tendency to shrink if pressure is put over the kidneys. All these signs are vague enough, but careful watching make them valuable to obreeders. Finally, the disease may not be confined to one part, several may be attacked. When the tuberculosis becomes general the development of the disease is extremely rapid.

All the inspectors at public slaughterhouses agree that a case of tuberculosis becomes general the development of the disease is extremely rapid.

All the inspectors at public slaughterhouses are killed for veal every year, and all are carefully inspected. Out of this number there were found tuberculous five in five years, or one per 160,000. At Lyons, France, five were found out of 400,000; at Berlin, Germany, four out of 150,000. All these are sections where the number of diseased cows is high. In Saxony, the most seriously, affected country in Europe, and where about fort

exposed to the contagion of the older animals.

These results seem to show that a healthy herd may be bred from a tuberculous stock by careful isolation. The calves were always removed at once, were fed for the first few days on the mother's milk, heated to 65 degrees, C, and afterwards on boiled milk. There are a few cases recorded in which it is clear that the calf had the disease at birth, but these are so very rare—not one in 10,000—that the rule is clear the disease is acquired, and not hereditary.

Tuberculosis is not necessarily fatal. The microbe may be taken into the system, and may not be able to obtain a lodgment; it is at once thrown off, or having obtained a place and begun to work, it may be stopped, isolated, and rendered harmless by the work of a healthy system. That this is often the case is shown by the large number of animals noticed in the slaughter-houses by the inspectors in which the disease has been stopped and healed.

Much harm, has been done and alarm

the disease has been storped and healed.

Much harm, has been done and alarmany the danger of using meat or office of the danger of using meat or office of the danger of using meat or office of many years, has fed cats and kittens, pigs, degs, calves and other animals, large quantities of raw tuberculous meat, the very worst he could find of animals suffering from general tuberculosis, without producing the distasse. Professor Perroneito, of Turinfed eighteen young pigs on raw meat of condemned tuberculous animals for five months, and could find no trace of the disease in any of them. In Germany the instructions issued regarding the careful inspection at slaughter houses in that Empire say: "In fact, the very numerous experiments made at Berlin, and a great number of Germany the instructions issued regarding the careful inspection at slaughter houses in that Empire say: "In fact, the very numerous experiments made at Berlin, and a great number of Germany the instructions issued regarding the careful inspection at slaughter houses in that Empire say: "In fact, the very numerous experiments made at Berlin, and a great number of Germany the instruction seed to the careful inspection of the very rare cases in which tubercular nodules are found in the muscles, ingestion (eating) of meat fron tuberculous animals is to be declared not unwholesome iof the animal being in good condition, the tuberculous of the same when the condition of the form of the form tuberculous animals is to be declared not unwholesome iof the animal being in good condition, the tuberculous condition, the first provided the provided the

An Indescribable Sensation

ing at the chest-like the pressure of an actual load upon it. In ever seemed rested, and awoke in the corning worse tired than when I went to bed. I was also much tripubled with what or gas from the stomach, and rate of a sour, fitting fluid.

"In this manner I continued to suffer for nearly two years, no medicine that I took giving me any relief. In January, 1894, I got a small box and read in it of cases like mine having been cured by Mo.har Seigel's Curative Syrup. I immediately procured the medicine from Boot's Drug Store, and after taking it about ten days felt much better, I could eat something nourishing without any pain following. I kept on with the Syrup and was soon in my former good health once more. You have my permission to make this statement public. (Signed) (Mrs). Ann Shaw, 174 Barnsley Road, Potsmoor, Shaffield, March 8th, 1895."

Touching the "indescritable rensation" allusted to by both ladies, an eminent medical author says: "It is syncope without the loss of consciousness. The sufferer has the keenest realisation of the bitterness of dissolution. I have seen stalwart men unnerved and shaken by such experiences till they tremble like aspen leaves.

The cause is an acid poison in the blood with Mother Sigel's Syrup, and to tone the stomach in the same way. I say the proposition of the earliest signs of weakness.

The Gates

by Fergus Hume, Author of "Mystery of a Hansom Cab.

"I didn't say that! I said that I had not seen her since she came to Farbis."
"Indeed! Then you knew her before she settled at, the Cortt"
"Yes! I—that is—oh, don't ask me any more!" said Merle, in an hysterical manner. "I can't tell you. If Tinker Tim knew he would kill me!"
The alarm of the man was 30 genuine that, Dan soothed him with soft words, as one would soothe a frightnedchild. And, indeed, Merle was little else, for the perniceous drug had effectually desiroyed his manhood, and converted him isto a nervous, irresponsible being.

the advantage of abousting all canger from tuberculosis, but it also has a marked effect in diminishing the number of deaths and illnesses due to intestinal affections, which are so common in hot weather.

Tubercule of the udder is rare. The disease betrays itself by a slightly hard swelling without heat or soreness. Usually only one quarter is attacked, and that a hind one. For a long time the milk remains normal, but gradaulty it changes, becoming bloody and yellowish, and the udder becomes almost wooden in its. hardness. This milk used alone as a chief part of food is dangerous. If it be normal and mixed with the milk of eight or ten other cows, it becomes comparatively harmless. Any milk taken in small quantities—one, or two glasses at a time—seems to be overcome by the puices of the stomach, and be quite incapable from using ordinary milk. It is well to know that this is the opinion of the best scientific men of Europe, who have given the matter close and careful attention for many years. Even the slight danger could be guarded against, the udders of milking cows carefully watched, and on the slightest suspicious circumstances, the milk boiled, which always makes it perfectly safe.

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Why suffer with the court is also have a companion of the best scientific men of Europe, who have given the matter close and careful attention for many years. Even the slight danger could be guarded against, the udders of milking cows carefully watched, and on the slightest suspicious circumstances, the milk boil-yand who had plenty

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may be consulted at 60 College street, Toronto. Hours—9 to 2, and by ap-

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If the tariff is lowered, goods will be cheaper by the amount of the reduction. Assuming there will be a reduction of 25 per cent., you can see what a difference that will make in the price of goods. We have determined to act on this assumption. This means a big less to us and to every merchant holding stock bought under the present tariff. The only difference between us and other merchants is we make the loss voluntarily now, whereas others will be fouced to make it later. The usual course will be to get all they can out of their stocks now, and only sell goods bought under the new conditions, at reduced rates. But it's not our way. We're going to get rid of our stock as if we had bought it under a 25 per cent. lower tariff. This will put us in a position, when the tariff is lowered, to buy new stock at a reduced rate, and sell new goods at prices undreamed of under present conditions, when others are struggling to get rid of their old stocks of high-priced goods.

In order to go into the matter carefully, and properly adjust the prices, it will be necessary to close our store for one day. As a gruarantee of good faith, we have invited the representative of each of the newspaper offices to form a committee to examine into the tariff and compare the reduced prices with the original, and give their opinion from the different standpoints of Conservative, Reform and Independent.

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