

"THE SO-CALLED WALKING DISEASE."

(By W. H. Lytle, State Veterinarian.)

For several years certain districts in the wheat growing section of Eastern Oregon and Washington have been troubled with a disease of horses termed by laymen walking disease. It has, as a rule, been quite baffling so far as satisfactory treatment or the causation of the disease is concerned. We have lately made several different lines of investigation and have of late reached a conclusion that the disease is caused by an over-infestation of bots. The districts in which this malady has been reported in Eastern Oregon is especially the climate is particularly favorable for the propagation of parasites. The particular species of bot that has been found prevalent in this section are those of which the female bot fly lays the eggs on and around the mouth. The same species of bot fly is reported to be more or less prevalent in Austria where a similar trouble and disease has frequently been reported. The bot fly and the bot larva are found in practically all horses but there seems to be a great variability as to the number and also as to the species. It is not known whether or not the particular species of bot fly carries a poisonous virus or organism that is transmitted to the host through its attachment to the lining wall of the stomach, or whether it secretes a poisonous product which when absorbed produces the characteristic train of symptoms. It is possible that the condition is largely due to a mechanical irritation and interference that takes place in the stomach.

In Eastern Oregon from May until late in November the climatic conditions are such that the bot fly can live. Inasmuch as the majority of Eastern Oregon horses are allowed to graze in pastures it is thought that an unusual opportunity is thus afforded for a very long period of egg laying on the part of the bot fly and the consequent opportunity for infestation on the part of the exposed horses. Mules are apparently immune to this trouble and the majority of text books do not indicate this mule as being highly susceptible to bot infestation. It is possible this particular species of bot does not infest the mule. The condition of soil in Eastern Oregon is particularly favorable to moulting of the bot parasites. The ground is soft and the pupa can easily work its way into the soil and undergo development there. The disease is apparently not caused by the presence alone of bots but by a certain harmful number. It would seem that if the number of infesting bots are kept down to a certain percentage that the animal is able to resist their presence. When this number reaches

a certain stage the animals are apparently overwhelmed and succumb to products coming from the parasite.

Prevention of the malady hence depends upon getting rid of the parasites or at least the harmful number. This is best done by the administration of carbon-bisulphide in two to three drachm doses, the same on an empty stomach. This drug can only be administered by means of capsules which will allow it to be taken into the stomach and when digested there, the drug will be released and will exert its influence on the parasites. After a rest of twenty-four hours, animals should be given three drachms of tartar emetic in a pint of sweet milk. This should be given on an empty stomach. This treatment is of such a nature that a veterinarian will necessarily have to administer it. When no veterinarian is available, good results have been had by the administration of tablespoon doses of flowers of sulphur, once to twice daily, followed by a tartar emetic treatment. Apparently the administration of certain stock foods and tonics have been found to be more or less beneficial. These tonics should always contain: iron, arsenic, nux vomica, gentian, ginger, sulphur, foenugreek, resin and nitrate of potash. When stock foods containing these ingredients are given animals over a considerable length of time they seem to greatly aid in the expulsion of bots and animals that have been so treated seem to resist this malady completely.

As a precautionary measure it would be well to clip the superfluous and long hairs from the legs, breast, and particularly around the mouth and face. It might be possible to shave these hairs and prevent the bot fly from laying its eggs upon them.

The are curried and kept in a stable seem to be quite free from attacks of walking disease. This is accounted for by the fact that bot flies are curried away before they are allowed to hatch.

A long course of tonic treatment seems to afford good protection but when the disease has once manifested itself, it is necessary to use a quick and rigorous treatment and under such conditions it is best to use the carbon-bisulphide and tartar emetic treatment or the flowers of sulphur treatment. If treatment is immediately carried out a recurrence of this disease may be frequently avoided by the methods herein outlined.

Big Plays Are Coming.

Manager Sparks announces "Intolerance" for Sunday, June 2. Also "For the Freedom of the World," Friday, May 31st. Don't fail to see these two great films.



FORD CAR BRINGS A SHOWER BATH EVERY AFTERNOON

Babies Grow Whiter as Doctor and Nurse Serve Daily Baths From Door to Door.

"Good morning. We have come to give the children their bath," this, of course, said in good French. Then from off the motor car slides a portable shower bath, carried into the house by doctor and nurse.

For the next half hour that little cottage boasts of a bathroom in active service, for when the water is heated the blessing of a warm, clean shower pumped by the doctor falls on the head of Young France, while the nurse scrubs religiously and the darkening water bears witness of a whiter, cleaner child.

And as you might well imagine, the kiddies like it, except the last cold dash that the doctor slyly engineers by quickly transferring the supply pipe into a bucket of cold water—for hygienic effect.

And what a blessing it is to these meek, tortured people, who for months have been without all of life's comforts and most of life's necessities, to be ministered to in this fashion.

It is perhaps understandable to them that "les Americans" out of sheer pity might offer them that meager thing that civilization calls "charity." But to be clothed, fed, sheltered and cheered as they have been by our Red Cross is more than they can understand.

For they have seen a great miracle grow out of the darkest pit of human experience. They have seen a bright light out of which has stepped the ministering angel who has taught them to smile again. They are no longer sick. They are no longer cold nor hungry, and now, wonder of wonders, this same good friend has contrived in some magic way—within the sound of the guns—to give them—baths.

Your Red Cross Fighting Dollars

Your Army and Navy fights to make the "World safe for Democracy."

Your Red Cross fights to make it FIT for Democracy.

Fights for your soldiers--yours and your allies--in trench, canteen and hospital.

Fights for the little children, to save them for the nations' upbuildings of tomorrow.

Fights for the swarms of homeless, dazed refugees and "repatriates" thrown out from the war's black whirlpool.

Fights the white plague, tuberculosis, that takes a greater toll than lead and steel.

Fights in every war stricken country to uphold a wrecked and suffering humanity in its struggle for a free existence.

**One Hundred Million Dollars
to "carry on."**

No power of taxation, no interest rate to urge THOSE dollars.

Each one a VOLUNTEER, sent willingly and by the heart alone.

The noblest fund of all the billions of this war's vast budgets—because the freest given.

What share is yours? What sacrifice to mobilize those Fighting Red Cross Dollars?

IF YOU WERE THERE INSTEAD OF HERE

If you should see a French child—a tiny girl—sitting by the roadside, sobbing quietly because she is too weak from hunger to cry very loud, you would sell your watch to buy her breakfast.

If you should hear somewhere in the restless wards the low moan of an American soldier, you would gladly sit by him all night, if that would save his life.

You are not there, but here where these sights and sounds are not brought home to you! But the Red Cross is there—and you can make it your representative!

Over there the Prussians are crucifying the incarnate Liberty of Man, and they are making the world black for little children!

The money you give to the Red Cross now will give you the right, when the Beast is beaten down, to think: "There are happy children, clear eyed women, and strong men alive today, because my money went across!"

What are you going to do about it?

Every cent of every dollar received for the Red Cross War Fund goes for War Relief.

The American Red Cross is the largest and most efficient organization for the relief of suffering that the World has ever seen.

It is made up almost entirely of volunteer workers, the higher executives being without exception men accustomed to large affairs, who are in almost all cases giving their services without pay.

It is supported entirely by its membership fees and by voluntary contributions.

It is today bringing relief to suffering humanity, both military and civil, in every War torn allied country.

It plans tomorrow to help in the work of restoration throughout the world.

It feeds and clothes entire populations in times of great calamity.

It is there to help your soldier boy in his time of need.

With its thousands of workers, its tremendous stores and smooth running transportation facilities it is serving as America's advance guard—and thus helping to win the war.

Congress authorizes it.

President Wilson heads it.

The War Department audits its accounts.

Your Army, your Navy and your Allies enthusiastically endorse it.

Twenty-two million Americans have joined it.

Paid for in the cause of humanity by

PHELPS GROCERY CO.

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