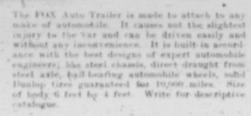


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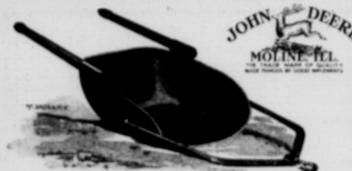


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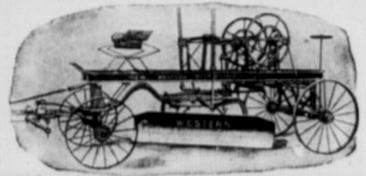
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Gid or Staggers in Sheep

This disease of sheep is popularly known under various names, such as "Gid," "Sturdy," "Turnstick," and "Staggers," and results from the pres-ence of a parasite in the brain or spinal

Characteristics

The disease is caused by the presence in the brain or spinal cord of sheep of a biadder worm, techajcaily known as the cocquius cerebralis, and which is the larval or immature stage of a tape worm, termed the thema cocquius, which inhabits the intestines of dogs. The life history and development of these parasites, as well as their effects on sheep, are definitely known and established and takes place as follows:

The adult tapeworm (tacnia cocquius) inhabits the intestines of an infected dog and develops in them until they reach sexual maturity, when they produce ripe segments containing immense numbers of eggs which are fax pelled with the excretia to the ground. The eggs thus expelled by infected dogs become scattered over the ground and grass, or may be washed by rains into ponds of pools of water, which thus become contaminated with the eggs. Sheep while grazing or drinking are then liable to swallow the eggs with the contaminated grass or water. The eggs.

lowed by sheep with the contaminated food or water.

Cattle are also liable to be affected with this parasite, altho less frequent by than sheep.

As a rule the first symptoms to at tract attention are that some of the sheep in the flock have become very peculiar in their actions and movements. The affected animals are often noticed to keep apart from the rest and to be showing signs of brain trouble. The head is kept in an unusual position, and may be pressed up against any obstruction. The eves become reddened and inflamed and in some cases the eyes even appear to be twisted or turned to one side and the animal becomes blind. In all cases, after a time, the actions and movements become particularly changed and noticeable. The affected sheep move with an unsteady gaft, become giddy and are seen to keep turning and wheeling around in a circle. In other cases they may keep lifting the feet unusually high and keep going straight forward until stopped by some obstacle in their path, while in other cases they are seen to staggerand stumble about and to often fall down. The kind of movements which they go thru depends upon the location



when this swallowed by sheep, on reaching the stomach and intestine, become hatched out by the action of the eigentive fluid, dissolving the shells of the eggs and the young worm, or embryo, which they contain is liberated. The embryos thus set free then hore their way out thru the walls of the intestine and wander among the tissues and penetrate also into some of the blood vessels, and then are carried by the blood current to the brain and spinal cord. Those which do not succeed in reaching the brain and spinal cord are reaching the brain and spinal cord the embryos grow and undergo-further development and become transformed into the bladder worms, or larval tapeworms. Each of these bladder worms consists of a mand watery cyst, or little bladder like sue, filled with matery fluid, abods an inch in diameter, the wall of which convists of a thin transparent membrane, and is marked on the surface by numerous little white spots, each of which is in reality the head of the separate small parasites or larval taneworms (coenuries cetchralis). These cysts or vesicles are found situated at various parts of the brain and by their presence may finally cause the death of the affected sheep. After thus dying the brain of the diseased sheep, if eaten by a dog, the bladder worms dontained therein are swallowed and, on reaching the intestines, develop into the mature tape worms. On reaching sexual maturity they produce ripe segments containing the eggs, which are expalled with the facece, thus maintaining the cycle of development by, in turn, being swal-

of the parasites in the brain and the parts of it which they are pressing on. The symptoms keep recurring and by their continuance, the affected animals refuse to eat and become thinner and weaker and death finally results in most eases. The disease is seldom found affecting sheep over two years old, and is met with most frequently affecting yearlings and lambs.

Treatment and Prevention

Treatment and Prevention

The treatment of sheep affected with Gid by the use of drugs is, generally speaking, futile, The various methods of practices which are claimed to be practiced to remove the parasites from the skull and brain, are of little practical value, unless in the case of some especially valuable animal, and then only in the hands of some one skilled in the method of operation. The prevention of the disease among sheep is of greater importance and with the observance of certain rules and precautions is comparatively easy and effective in preventing its occurrence among sheep. In the first place all superfluence dwith, and only those retained which are actually required. Those which are retained should be treated at regular intervals, at least twice a year, for tapeworms, and no untreated dogs should be allowed on the premises or pastures where sheep are kept.

In treating the dogs for worms they should be tied up and first given a dose of physic, such as two or three table apoonfuls of caster oil, to empty the howels. They should then be kept without food, except a little milk for a day and then given some medicine to kill Continued on Page 27