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THE FARMER'S ADVOCATE.

Forage or Mold Poisoning.

say to lessen the size of the collar by use of a pad or other means.

In addition to having a collar that fits properly, it is necessary to keep it thoroughly clear of accumulation of sweat, dust, etc. During the first few days of work in the field, the team should be gi en a few minutes' rest occasionally, when the collars should be lifted forward on the necks in order to allow the shoulders to become dry and cool, when it is good practice to hand-rub them to remove dried perspiration, and lift the mane from under the top of the collar before starting again. The untoward results of the friction and pressure of the collar upon the shoulders are varied, and we cannot tell why they should act in one way on one horse, and in another on his mate.

The most common form of sore shoulders is practically a scalding. The shoulder becomes tender and hot, probably no swelling; the hair falls out, the skin becomes reddened, and soon raw In these cases, as in other forms of sore shoulders. of course, the proper course is to give rest and treatment until a cure is effected. But in many cases horses are scarce, and the work must be done in a certain time, and rest is practically out of the question so long as the animal is able to work Probably the best treatment is a dressing made of one ounce each of sulphate of zinc and acetate of lead, to a pint of water. This should be applied * four or five times daily. Various means are taken to relieve pressure upon the sore parts. Some use pads with holes that fit over the sores, some cut or pound cavities in old collars, but all devices are more or less ineffective, as they tend to put extra pressure upon other parts of the shoulders. These are likely to become sore and complicate matters. When it is necessary to work a horse with sore shoulders, the better plan is to use a large breast coilar. This can be done with reasonable satisfaction, except when machinery or vehicles with tongues are used.

In some cases of sore shoulders of this nature, it will be noticed that the diseased skin parts from the healthy skin in a circle, but a portion in the centre remains attached to the underlying tissues. This is called a "sit-fast," and it is necessary to dissect the portion of healthy skin in the center from its connection with the muscles, in order that the whole may heal. Sometimes, instead of a scalding, the result of pressure by the collar is the formation of an abscess. Abscesses are of two kinds : One contains a reddish, watery fluid, and is called a "serous abscess"; the other contains pus, and is called a "purulent abscess." The former kind forms quickly. An enlargement is noticed; manipulation reveals a soft, fluctuating tumor containing a fluid, just underneath the skin. A purulent abs ess forms more slowly. The horse evinces soreness when he is asked to draw. An examination reveals a swelling on the shoulder. It is hard, warm and tender. After the first few minutes at work the animal will probably show little inconvenience until after he has again stood idle for a few minutes, and in many cases the swelling becomes smaller; but the next morning the swelling and soreness are more marked, and in most cases in a few days it becomes soft in the center, and if not lanced will burst and discharge pus; while, in other cases, the pus is very deepseated, and it is not possible to tell, without e

Iowa farmers have suffered heavy losses in the past few months by the death of horses from a disease that affects these animals almost exclusively. It is usually fatal ; it is not contagious. and it is quite certain that it comes from the eating of moldy fodder or grain. There is only one safeguard against it, and that is the rejection of any feed that shows signs of mold. Silage and corn fodder of any kind, and hay from swampy lands need to be inspected with special care, for they are the most likely to be moldy. Cattle often seem to eat spoiled plant food without harm, but to horses it is poisonous.

This disease has been called by various names Forage poisoning, cryptogamic poisoning, enzootic cerebritis, epizootic cerebro-spinal meningitis, leuco-encephalitis, etc.

It usually appears in isolated outbreaks, and generally the horses on a single farm in a community are affected. In some cases, where horses are not fed alike, only those given a certain kind of feed are taken sick. In these facts there is quite conclusive evidence that the disease is associated with the food eaten, and that it is not transmitted from one animal to another. The outbreaks appear more frequently in low, swampy districts, because conditions there are more favor able for the development of the molds and the undesirable changes in plant foods believed to be responsible for the disease. It is not by any means confined to these districts, however, nor is it limited to any certain foodstuff. It merely occurs more frequently in some foods than others, due to their nature and method of storing.

CAUSES.

Forage poisoning is likely to appear whenever moldy grain or fodder is ied to horses or mules. but it does not follow in every case where such food is given. Moreover, it very seldom affects Horses and nules may sometimes be fed cattle. for a considerable time on fodder containing more or less mold, without sickness, while, in other cases a comparatively small amount of such feed will cause death in a short time. Danger lie; in the use of fermented foods, also on account of poisons developed in fermentation. Some plants are likewise poisonous at a certain stage of their growth, or when partially wilted. This is true of sorghum, particularly the second growth, which

in some cases causes almost instantaneous death. There are several molds which grow on food materials under certain conditions, which are more or less injurious. The most common are the black mold, the blue mold, and the green mold. They are found most frequently in silage, corn, hay, oats and ground feeds. Moisture favors their development on all foodstuffs.

SILAGE.

Silage is one of the most important and valuable foods available to the lowa farmer, but is often responsible for forage poisoning. silage is of proved worth as a feed for horses, as Sweit well as for cattle, but, speaking generally, silage feeding is attended by some dangers that the owns should know. Silage contains the necessary moisture, and, in most cases, the re quired heat, to favor the development of molds On this account it is more often a cause of forage poisoning than other foodstuffs. Perhaps 80 to 90 per cent, of the outbreaks reported to this sta tion come from feeding moldy silage. The quan tity of mold may be so small as to be overlooked. and yet be dangerous. Especially is that true of hay coming from low, marshy ground; though the mold in it may not be seen at first glance. there may be enough of it to produce poisoning

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breathing is usually irregular and jerky. The acute cases invariably die after a course of 12 to 72 hours, and are usually the first animals to be affected after moldy food is eaten.

In sub-acute cases the symptoms are similar to those in acute cases, but they do not come on so suddenly, and are less violent. The sub-acute cases occur among animals that have eaten less of the poisonous food, and they are the last to show symptoms. Dullness and difficulty in swallowing, associated with slobbering and dropping partially. chewed cuds of food into the manger and feedbox, are early signs of the disease. These are followed by increasing paralysis, especially of the limbs, weakness, and often indications of deliri-In fatal cases death follows in from several days to a couple of weeks. A few of the less severe cases may recover.

The length of time between the feeding and the appearance of the symptoms, the suddenness of the attack and its duration, depend upon the amount of poisonous food taken. The course is shorter, from 2 to 4 days, the attack is more sudden, and death soon follows in from 12 to 36 hours when large quantities are consumed.

PREVENTION.

Since horses and mules are very liable to poisoning with moldy foods, where cattle may eat the same foods with little or no danger, the method of preventing the disease is clear. Under no circumstances feed horses or mules silage that is the least molded or decayed. In feed-ing silage to cattle, do not put it or scatter i where horses or mules can get to it, for they will sometimes eat the leavings in the feed trough after the cattle have picked out the best food. Do not throw waste silage where horses or mules can reach it. Sweet silage is a wholesome food for horses, and of known nutritive value, but unless it is certain that it is perfectly fresh and free from mold it should not be fed to horses at all. Moldy silage has already caused such heavy losses on some farms that it will take all the profits a silo can bring to make good the cost.

The hay, corn, oats and other grains fed to horses should always be of the best quality, and the water troughs should be kept clean, and the water pure and fresh. With all these precautions, forage poisoning can be eliminated. Iowa Exp. Station.

C. H. STANGE.

Shoe Boil.

Editor "The Farmer's Advocate"

For the benefit of your many readers, especially for "A. M.'s" inquiry in your issue of February Sth, I should like to say that I have found tincture of iodine a sure cure for shoe-boils. Paint the boil every day, and it will entirely disappear. I had a very bad case; nothing seemed to help, until I was told by an old stallion-owner to use todine, which I did, with the above pleasing result. It is true that the shoe is, in a large measure, responsible, but a horse will have shoeboils that never wore a shoe. Tie a bag around the foot at night, or tie horse so that he cannot be on the side affected. W. S. P. Annapolis Co. We always like to receive experience notes of this character, even though the conclusions implied sometimes require qualification. In this one, for example, all that can be safely claimed is that tincture of iodine was used for a certain case, and a cure resulted. We have had a still more remarkable case on our own farm. A driver that had been employed at circulation work as brought to the form to be wintered. She ad a large, long standing showboil, but, as the are was not highly valuable, no attention we and to it. However, the shoe holl gradually he and ing was done for it. The many has been kept -not all winter, and stands in an ordinary stall, taille, still the enlargement is about gone. Had rather scantily has ded. We did not even exercise we comment discentiment when she came in, what-Two fours of the disease ar most common, the roll, have been given the credit. In the case interaction in our correspondent, as also in our the submatrice interaction of the out correspondent. own, no doubt the cause was in some way remodel. There was mother serum nor pus in the amor, and the iodine, her increasing the activity e ligneren. When either serum or pus is pres-tal event is ery small quantities, neither iodine er and flations will effect a cure, the research Again, where there is a basic of consideration size, external applica-centric has effective, and dissection must be rel. The majority of people are too in-mulated at correlations. If our correspon-Again, where there is a the basis of capped elbow to treat, he sector cases of capped enow to treat, re-content sector that indine would fail him. "In each and valuable drug, but as a close if it as if limitations. We have a function of capped elbow in unshod etchevy, but the cause was lying with



is caused by weight or pinching of the collar, and appears especially on horses that are worked to machines with tongues. It often takes the form of the appearance of a succession of boils. Treat ment consists in lessening the weight as much as possible, lancing each boil, and dressing with the above-named lotion or other antiseptic and astringent. When intelligent and careful preventive measures, as those mentioned, and the removal of the collars at meal times, are observed, sore shoulders should be seldom seen. "WHIP."

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lack of thirst, associated with depression and have of spirit, are usually the first symptoms. Follow ing this usually come unsteadiness of gair and in ability to control the hind quarters, which become worse, until the animal either lies down or falls and is unable to rise. At the same time, time is of the throat and checks, as a result of which there is should ring, due to inability to swallow, and thatdo, constation of the cheeks, which appears sw ten and pressed. After the animal is could rise, it will concludes lie quietly for hears. sometimes is will struggle or show space quent intervals. In acute cases there i profuse sweating and many times a period ing appearance of the eyes. The tenso normal or frequently below normal, wi trary to the fact in contagious dise