HORSE

it is home produced. In this sense the farmer is disease. who raises horses becomes the manufacturer of mechanical traction.

A committee was appointed to draft a constitution and by-laws, which, at a subsequent meeting, were adopted. The standard will be the same as that of the American Trotting Register Co. Robert Davies, Toronto, was elected President, and John W. Davies, Toronto, was elected President, and Davies, and the President Brant, Ottawa. Secretary.

Some Diseases of the Respiratory Organs

PART I.

By J. FIELDING COTTRILL, V.S.

When speaking of the diseases of the respiratory by means of the nostrils. organs we must first know what those organs are. Roughly we may name them thus:-First, the nostrils, leading to the nasal chambers, into which open the sinuses or hollow chambers and right bronchi, and each of these branches the hole and the effect will cease by itself. For mentally say, "By Jove, Jack is better than ever! divide until they become almost microscopic in some of the causes of these lung troubles. diameter, and ultimately end in the minute air cells. It has been said, and very rightly, that this tube and its sub-divisions bears a great being ventilated at all. resemblance to a tree, the trachea being the bronchial tubes, the branches and twigs. Finally blankets, if in a cold stable, than use a hot close pears to be tired and wants to stop. the air cells may be said to represent the leaves, stable. Anatomically this description is very crude, but it is sufficient for our purpose. The lining memto get out of order.

of the two air cells, with the blood vessels separatact as chemical irritants to the lungs. ing them, does not exceed 1-3500 of an inch.

Just fancy for a moment what this means! There is a lining membrane to each air cell; there are the structures composing the walls of the air-cells; there is the blood vessel with its three walls, doubled of course, and the blood and blanketing can. space or lumen between, and the whole combined I have just named.

Can one wonder that such delicate structures are very susceptible to foreign matters in the to the requirements of the lungs. There are sieves, as we might term them, to arrest dust or germs. There are other minute organs for providing a special lubricant for this delicate covering. machinery, and others still more minute, working incessantly to carry to the outside any excess of this lubricant, together with the dusty particles to a part. or arrested germs. Treated properly these bodies are ample to answer all the requirements of Na- healthy or unhealthy. themselves to the changes from summer to extra supply of blood to it, to allow it to perform haps trembling.

tropical heat, but such change does not occur not excessive, the nerves have the power of innaturally without warning or giving time for creasing the power of the bloodvessels to allow

Here it is we often go wrong.

men are preparing to go abroad for more stock delicate machinery to do the same. Loyally it blood will pass to this organ when functionating, emphasizes the fact that horse breeding is even tries to do so, but the strain is too great. Some and the vessels by the training will have acquired now one of our most progressive industries. frail, tender link gives way, and the whole stronger and more elastic coats. Nothing is more certain than that we must have machinery is thrown out of gear, the balance is When the demand for this blood ceases, the horse power and that even when mechanical lost, every part works furiously or not at all, stimulus is withdrawn, the nerves, acting the power is cheaper to buy than animal power the there is nothing to check them, nothing to keep part of the drill sergeant to his soldiers, cry, advantage is with the latter for the reason that them in harmony, all is confusion and the result "Stand at ease," the elastic coats of the blood advantage is with the latter for the reason that them in harmony, all is confusion and the result

> membrane, because one of its duties is the quiet. secretion of a kind of lubricating substance known

an association and establishing a pedigree register it to become inflamed, and then, at first, the for it, under the National Live-stock Association of Canada. secretion of mucus is temporarily arrested, but this is soon followed by a profuse and super-

first thing seen by the owner.

germ-laden mucus, or to get rid of it

Quite right. You want it to come away.

We may briefly state them to be

I have just said, may easily be corrected by are dilated, the head stretched out, the breath brane, of such delicate structures, must be still blankets. Besides cold stables, if not draughty, is coming almost in sobs, the flanks heave, the more delicate and, therefore, extremely liable will cause very little disease; but dampness is countenance looks worn and haggard, and the deadly.

(e) Allowing an overheated animal to dry by evaporation. The result is practically certain

does not exceed the tiny particle which would be and that is overwork and over exertion when not Had your horse been in condition the elasticity left if an inch were divided into three thousand in condition. The result is practically certain of the vessels could have controlled this blood five hundred parts. 100 sheets of the paper to be congestion of the lungs. It is an easy matsupply.

I am writing upon measure $\frac{3}{2}$ of an inch in thick-ter to prepare the horse for work by doing a Notice the word "condition." In it you have ness, therefore, each sheet of paper is about little every day for a few days before the bulk the key to the whole affair. thirteen times the thickness of all the structures of the work comes on. If this is too much trouble, To prevent congestion air! They are very little affected by the natural you want to know about the diseases. Those then exercise him frequently to prevent him atmospheric changes, for Nature has arranged of the nostrils, nasal chambers, sinuses, etc., getting out of condition. things upon a most admirable plan, provided may all be omitted, not because they are not. However, that won't cure Jack as he stands some parts to warm the air before it reaches important, since they may even be fatal in in the road or maybe, in the stable after a sharp these sensitive bodies; planned others to add extreme cases, but because they are not an run. moisture to or withdraw it from the air, according every day occurrence. We shall confine ourselves to some diseases of the lungs, that is, what we see and feel. Here it is :-

CONGESTION OF THE LUNGS

Congestion really means an excess of blood

This may, therefore, be abnormal or normal,

ture. They need no assistance from us to adapt Whenever an organ is used Nature hurries an

winter, from the Canadian zero to the African its physiological functions, and if the demand is these structures to adapt themselves to the this greater volume of blood to pass to this changed conditions. of checking this flow. It may even happen that Recent importations of pure-bred horses to the Instead of proceeding gradually, we jump from an organ may be trained to do a much greater west together with the report that other horse- one extreme to the other, and compel this amount of work than usual. Of course, more men are preparing to go abroad for more steel.

vessels resume their normal condition, that is, The whole interior of these tubes and air cells the elastic tissues recoils, the diameter of the his own motor traction and by the way, has about is, as I have said, lined with a very delicate vessels is decreased, the blood driven back from as large a margin of profit as the manufacturers of kind of membrane, which is termed a mucous the lately active organ and everything is again

I have just said an organ could be trained. A meeting of breeders and others interested in as mucus.

Standard-bred Trotting and Pacing horses was This membrane, being tender, is especially though this extra strength is not required when recently held in Toronto, for the purpose of organizing subject to disease. It requires but little to cause at rest, it is there whenever there is a demand

Let me give an example:

The heart of the trained racer is much larger It is this discharge which is in many cases the them, because during the race there is an imst thing seen by the owner.

Very often, we are asked to stop this, and blood to the lungs. The ordinary heart could obably we could but think for probably we could, but think for a moment not supply this, therefore, the pumping organ is about the wisdom of doing so. This secretion increased in size and power, and unless the lungs is not normal either in quantity or quality, were also increased proportionately in size and It is most unhealthy, most abnormal. And power it would result in congestion. But, Nature is getting rid of this unhealthy substance having gained the increased size and strength of these organs, it is necessary that they be Do you want the horse to retain this poisonous exercised regularly, or they will lose their power,

since disuse will weaken any organ.

Suppose now that your horse has been doing But this is an effect and every effect has a cause. little or nothing all winter, and on the approach in the skull. Next we come to the pharynx, Therefore, the cause of this abnormal secretion of spring you hitch him up, and drive him along common to both the windpipe and the gullet. must be found and removed. Then the effect at a smart pace for say five or ten miles. He The larynx or voice-box, containing Adam's will cease by itself. Rain falling upon our bed will start off as in the previous fall, full of fire apple, comes next and is followed by the windpipe is an effect, the cause of which is a hole in the and go. The air whistles past your ears, the or trachea, and this, as everyone knows who has roof. We may move the bed, but this is of regular pad, pad, of his hoofs on the ground killed and dressed a pig, divides into the left little practical use. Remove the cause, fill up strike your ears with musical regularity, and you into the bronchial tubes, which divide and sub- a time, therefore, we will consider what are Then you almost decide to enter him in the race at the fair, but while you are building your castles in the air Jack begins to go slower. (a) Badly ventilated stables, some not even cherup and he picks up his stride again, but soon slackens. Then you touch him with the (b) Stables too hot. They may even be too whip and once more he answers to the demand, trunk, the bronchi, the arms or limbs, and the hot as well as unventilated. Far better use but almost at once reduces his speed. He apable. queer, you think. You pull up and go to his (c) Stables cold and damp. The coldness, head, and what do you see? Why, the nostrils horse appears almost to be suffocating. If you Then surrounding these delicate parts are the (d) Stables badly drained. The air, here, are unwise enough to make him move, he will blood vessels, so small that the combined walls is constantly polluted with foul gases, which stagger, and may even fall. Now you are alarmed and wonder what is wrong.

Well, it is simple enough.

The blood vessels in the lungs have become to be disease. Far better rub the animal down, weakened by disuse. You suddenly make a cover with a light blanket, and walk till cool, great demand upon them. They are unable If the walking cannot be done at least the rubbing to control the great volume of blood pumped into them, and you have what we term congestion (f) One other fertile cause may be named of the lungs. This is, of course, abnormal.

To prevent congestion of the lungs, get your tie a long rope to the bridle and make him run horse into condition. Exercise him gradually in a circle for five or six minutes every day, after a rest. Make him go a little further or a Surely you can spare time for this. However, little faster every day until he does his best,

Head.—Extended but hanging down. Eyes.—Probably wild and staring, but may be dull and sunken.

Breath.—Coming in gasps or sobs. Ears.—Probably cold.

Feet.—Probably cold.

Flanks.—Heaving spasmodically. Body.—Covered with perspiration and per-

Legs.—Stretched o of falling and require Pulse.—Very frequ Heart.—May be hec probably 100 a minu It may be seen to be felt to strike the h

These then are the lungs brought on b horse is out of condition There may be other the results of suffor but these do not preand are not, as a rule

of the lungs" we gener above. Now for treatment If on the road, stop If in the stable, give him stand still. \ He

mortem examination.

moving. His market value two and one-half doll hide! Remove his l smartly with cloths, It may draw some o to the skin, and that at, viz: to ease the l all the better. Set 1 one at each side of the and rub for all you does not pour out of frightfully, you are 1 the legs appear warm from the hoofs as hi even put a blanket the rubbing under th find everyone has his are probably 5 or 6 m the trouble occurs, a about drugs when yo

Let me whisper sor a stimulant. Alcoho give a good dose of brandy, whiskey, run of water and repeat quart of good ale is N. B. Personally

beverages, but many Therefore, it may be has them. Vicarious effective. On the hu common to take away and half of blood, an is one of the very fev bleeding. With luck will gradually pass a slowly rise from \$2.50 are not out of the w hallo too soon.

Pneumonia is extra Therefore, for a few still use the bandage fresh air and clean col well, try bran mashes if you can get it. Th for goodness sake get

you work him again. N. B. The word anyone with a grai professional advice s and not delayed until in. Still there are tin then follow my advice and you will succeed

Our Sc

Ayrshires have been the past few weeks. changes in the tenancy one which excited un Andrew Mitchell, the shire cattle, who left t Stewarty of Kirkcudbr cupied this farm for m differences with his land his tenancy at the ear fered. His displenishin here, occupied two days of the farm with a real He was paying about two farms adjoining on between 90 and 10 Mitchell was a firm belie of the Ayrshires He do