then conveyed by means of the duct to the nose.

A very common disease of the eye is simple Opthalmia or conjunctivitis. This proceeds from many causes; the most common is the introduction of foreign bodies into the eye, as alash with a whip, chaff or hay seeds, also caused by foul stables, especially in hot weather, hen there is a great quantity of ammoniacal as generated, arising from the decomposition of the urine, &c.; this disease also occurs ometimes as an accompaniment of catarrh or old in the head.

The symptoms of simple opthalmia are more r less closure of the cyclid, watery eye, with copious secretion of tears, the conjunctiva is wollen and in some cases attendant upon exemal injuries, there is a protrusion of the conanctiva beyond the cyclids, also of the haw, ad generally more or less cloudiness of the omea, owing to the nutrition of the part beg interfered with.

The treatment of this disease depends much a the cause, hence the necessity of careful ex-If caused by a foreign body it must mination. eremoved, which can be done either by the troduction of a feather or removing it with The first layer of the cornea is covrceps. ed with scaly epithelium, and chaff, hayseeds, a, are very liable to become embedded there-; in some cases these require a little force to After the offending agent is tract them. moved, the application of cold water to the eis useful, also some mild astringent, as the lphate of zinc, also a small dose of laxative tdicine conjoined with low diet, and place eanimal in a cool, darkened and well venated horse box.

The cornea is very liable to be injured from ows or tears, and these injuries are always companied by symptoms of conjunctivitis. We tears may simply occur on the outer layer they may go through the whole coat, when eaqueous humour escapes. In injuries from ows, cold cloths kept close to the eye are eful; this keeps the cyclids closed, supports the cacrated parts, and also prevents the aca of the air on the wound. By such treatot, even when the aqueous, humour has aped, it is astonishing how soon it will form ain.

n all wounds of the cornea lymph is poured t, giving the cornea a dull leaden appeare. When the eye has this dull appearance no bloodvessels appear, there is a probabilof its being removed; if changing to a rly whiteness, there is little chance of ever ling rid of it. After the inflammation has sided stimulants must be applied, as the rate of silver, the sulphate of zinc, &c.

n young dogs the cornea is subject to ulcern, as a sequel of distemper. The first -ptom of this disease is a slight opacity in centre of the cornea; this opacity is foled by the appearance of a small hole or ulcer, which, if left alone, gradually extends over the whole cornea. This ulceration depends on the nutrition of the cornea being destroyed, followed by disintegration. It is best treated by a solution of the nitrate of silver, about fifteen grains to the ounce of water.

## **ROARING IN HORSES**

Roaring is usually the result of structural alterations within the larynx or upper part of the windpipe bordering on the trache; in mildcases of roaring, we usually find a threkened state of the membrane, lining the upper portion of the respiratory passage, and when roaring is occasioned by thickening of this membrane, its degree depends on the ratio of decrease in the calibre of the tube breathed through.

Roaring is a very ar stocratic disease; many of the very best and fastest horses in England were and are now, notorious roarers. Flying Childers, as fast a horse as ever wore horse shoes, was one of the worst roarers ever known; the story runs that when Childers was at full speed his roaring resembled juvenile thunder ! he could be heard when distant half a mile !

The worst form of roaring (as Paddy says) is whistling. This is the sharp shrill note only occasioned by the thickening of the lining membrane of the primary passages of respiration, but by alterations in the form and structure of the largnx—the largnx being, in popular language, known as the "voice box."

Roaring is more prevalent among stallions than mares and geldings, and the kind of horse most subject to it is the one having a thick chunky neck, and having the angles of the jaws in very close proximity with the neck.

Roaring scarcely, if ever admits of a radical cu:e, and when of hereditary or congenital origin a cure is impossible. A roarer should never he encumbered with a check-rein, for it has the effect of causing undue pressure on the larynx, and thus augments the difficulty.

Roaring can however be relieved by an operation known as tracheotomy, which is performed at a point a few inches below the larynx.

At a late meeting of the Imperial and Central Society of Veterinary medicine, M. Leblanc read a communication on tracheotomy which. was performed on a carriage horse. "The operation had been performed because the horse was a severe roarer, and he wore the tube eighteen years and a half, doing fast work all the time. The animal was destroyed at twenty three years of age, the owner not desiring to make further use of him nor to sell him. Since the operation, Leblanc had not observed any change in the horse, except a depression of the bones of the face. After death, the larynx was found very narrow, the mucous membrane and submucous cellular tissues were thickened, the epiglottis deformed, very obtuse, and everted at its free margin. The changes in the larynx were the original cause of roaring. The depression