

RESPIRATORY TROUBLES

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The main factors limiting the performance of sport horses are articulation difficulties (latest studies are demonstrated in this HPH pages 4 to 8) and respiratory problems.

The output of maximum effort creates a huge need for oxygen which puts the respiratory system under heavy stress.

Even the air flow is capable by itself of creating inflammation of the trachea.

Only a small imbalance may be enough to harm the horse's capacity to breathe efficiently. So, for instance, the variation of only one millimetre in the superior air passages

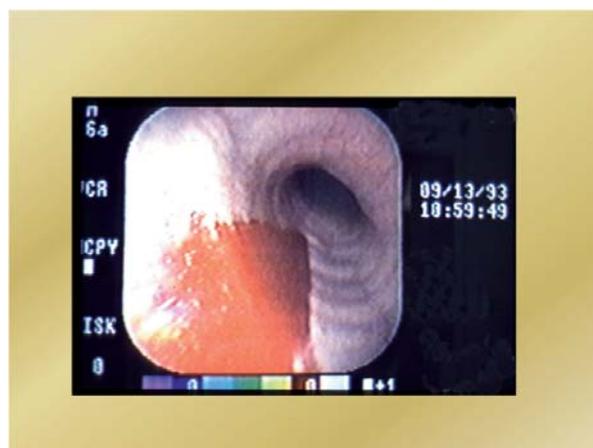
can influence the necessary respiratory pressure to a considerable extent.

The cause of respiratory pathologies with racing and competition horses is often multifactorial. These factors include:

- particles floating in the air (dust, pollution, fungal spores....)
- physical qualities of the air (temperature, humidity)
- presence or absence of clinical viral infections
- latent inflammation related to problems with the immune system
- anti-oxidant imbalance
- genetic and selection factors

When considering these factors it is essential to differentiate between affecting the superior and the interior air passages. It is necessary to recognise that the damage at one level can negatively influence the other. For in-





Endoscopic pictures of the trachea. Left : accumulation of pus in trachea, right: accumulation of blood trachea.



stance, the reduction of the diameter of the superior air passages can induce an increase in frequency and intensity of pulmonary bleeding.

Here are two examples of problems at each level found in active horses,

- 1) superior air passage :
 - swollen dorsal soft palate
 - haematogenous hemiplegia
- 2) lower air passage:
 - inflammation of small air passages
 - bleeding due to exercise

Preventive measures are first the selection of horses with no identifiable potential genetic troubles (haematogenous hemiplegia,)

Then all possible hygienic measures must be taken to limit the creation of dust and ensure forage feed of premium quality.



ANOTHER CONSIDERATION OF THE TWYDIL® TWYBLID FORMULA

TWYDIL® has developed TWYDIL® TWYBLID which helps to reduce the risk factors associated with inflammation of the inferior and superior air passages.

The original formula of TWYDIL® TWYBLID, now recently improved, contains vitamins, anti-oxidants and several bioflavonoids. TWYDIL® TWYBLID helps to ensure the integrity of capillary blood vessels, maintain a good biochemical balance

and reinforce the anti-viral defences.

TWYDIL® TWYBLID is a complementary feed supplement which helps to control certain risk factors related to problems of the respiratory system.

TWYDIL® TWYBLID can be beneficially combined with TWYDIL® OMEGADIL whose beneficial action on the capillary blood circulation and on the general inflammatory balance may prove synergistic and beneficial.