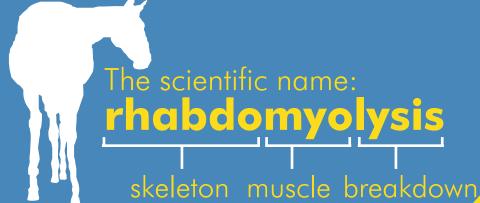
MINCHUE

SIGNS, CAUSES, MANAGMENT & PREVENTION





A disorder causing extreme muscle contractions.

SIGNS OF TYING-UP

extreme

Urine turns dark (reddish-brown)

cases:

► Muscles may bulge

Appears to be in significant pain

> Increase in heart & respiratory rate

Contraction of muscle groups

Muscles on either side of the spine feel rock hard

> **Temperature** may rise up to 40°

Sweats profusely

Gait gradually stiffens

Reluctantance to move

LAUSES

• Electrolyte imbalances (Ca:P)

- Altered or abnormal carbohydrate metabolism
- Mineral deficiency (Ca, Mg, P or K)
- Vitamin E \ Selenium deficiencies

Exercise

- Over exertion in training
- Dramatic changes in training

Other

- Dehydration
- Lactate build up
- Hypotension / Nervousness
- Hormone imbalances
- Genetic Inheritance

YOUR CHECKLIST

Initial Attack

- Stop exercising the horse and don't force the horse to walk.
- Call your veterinarian.
- Rug the horse if weather is cool.
- Check for dehydration (use pinch test)
- Provide small frequent sips of water.
- Relieve anxiety and pain. (Drugs may be prescribed by your veterinarian.)
- Remove grain and feed; provide only hay until signs subside.

Recovery

- Hand walking or small paddock turnout is good once the horse walks freely, usually in 12-24 hours
- When blood creatine kinase (blood enzyme) is normal, **slowly recondition** the horse to the previous work level.
- Recovery time may be up to 6-8 weeks and ability to return to work will vary with severity.
- If the problem reoccurs, have the horse **evaluated** for a specific cause of recurrent exertional rhabdomyolysis.

Exercise Management Carefully adjust to your horse's fitness level

and metabolic rate.

A consistent, structured program with **no rest days**



Hard work should be followed with a slow trot or canter to stimulate the delivery of oxygen to the muscles and the removal of lactic acid

Slow increase in

Adequate warming up and cooling down of horse.

intensity as fitness develops

Nutritional Management

Avoid High Grain Diets Avoid feeds high in cereal grains (e.g. maize, barley, oats) and focus on fat and fibre sources.

High Fat Diet

Oils provide slow release energy and maintain steady blood glucose and lactate levels.



Balanced Ratios & Levels

Feed the correct ratios of different electrolytes and elevated levels of vitamin E, C and selenium.



Reduce Stress

Introduce supplements to reduce nervousness/stress such as Thiamine, Magnesium and Chromium



Good Quality Hay

Provide hay of excellent hygienic quality, suitable to the horse's nutrient requirements.



Frequent Small Meals

Avoid long periods without food to prolong chewing time and reduce boredom.