

Tildren



What is Tildren?

Tildren 500 is a veterinary pharmaceutical product for horses composed of tiludronic acid from the bisphosphonates class. This is an aid in the treatment of clinical signs of lameness associated with bone spavin in combination with a controlled exercise regime.

In regards to lameness, efficacy is still measurable 6 months after administration.

What is the recommended administration route for Tildren?

It is currently exclusively available as an injectable intravenous form for horses. Tildren 500 should be given via systemic intravenous administration in the jugular vein as a single administration in a 0.9% NaCl drip over at least 30 minutes. This is repeated at an interval appropriate for the condition being treated- in most cases this will be at around 6 months and again at 12 months but in active conditions we may administer a repeat dose at a shorter interval.

Why is it done this way?

When drugs are evaluated for efficacy and safety reasons, many parameters are taken into account. For tiludronate, it has been shown that when given slowly during at least 30 minutes, it has the same efficacy as when it is given during less time and will help to decrease colic signs and also renal issues. In addition, giving it in 1 litre of fluid also helps slightly increase the horse's plasma volume (hydration). This also makes administration safer for the kidneys.

What are the side effects?

Tildren 500 has the same side effects as other bisphosphonates. Colics were observed in less than 15% of horses treated with the recommended therapeutic scheme, and renal failures happened in less than 0.1% of cases.

How can I monitor the horse?

Horses should be observed closely for 4 hours post-infusion for the development of clinical signs consistent with colic or other adverse reactions. Checking renal parameters before administering the product can help to avoid administering the product to a horse with known impaired renal function.

MACCLESFIELD VETERINARY HOSPITAL
 38 Cumberland Street
 Macclesfield
 Cheshire SK10 1BZ
 Tel: 01625 501500
 Fax: 01625 612240

CONGLETON BRANCH
 18 Moody Street
 Congleton
 Cheshire CW12 4AP
 Tel: 01260 273222

WILMSLOW BRANCH
 19 Hawthorn Lane
 Wilmslow
 Cheshire SK9 5DD
 Tel: 01625 524422

FARM CENTRE
 The Barn - Holly Tree Farm
 Holmes Chapel Road
 Lower Withington
 Macclesfield
 Cheshire SK11 9DT
 Tel: 01477 571000

WHALEY BRIDGE
 Block B
 Ringstones Industrial Estate
 Whaley Bridge
 High Peak
 Derbyshire SK23 7PD
 Tel: 01663 732564

EQUINE CENTRE
 Somerford Park
 Holmes Chapel Road
 Somerford
 Cheshire CW12 4SW
 Tel: 01260 280800

Bisphosphonates

What are bisphosphonates?

Bisphosphonates are a class of drugs commonly prescribed to treat bone resorption in people and horses.

Bisphosphonates effects are: improved balanced bone remodelling, decreased mineral loss and alleviation of pain induced by abnormal bone destruction (osteolysis). These problems are found in spavin.

How do bisphosphonates work?

After administration, bisphosphonates enter the blood stream and bind to the mineral matrix of the bone in the areas of most intense re modelling.

They attach themselves to the exposed bone where osteoclasts have been over active. When the osteoclasts then continue to break down the bone structure, they take in the bisphosphonates which then disrupt the osteoclast and kill it.

What are the side effects?

The main adverse reactions related to treatment with bisphosphonates are signs of discomfort or signs of colic, softening of faeces and sweating. The signs of colic appear within a few hours following treatment, they are mild and transient, and generally resolve spontaneously without requiring any specific treatment.

In rare cases, renal failure may occur within 1 week after administration of the product.

Are all bisphosphonates the same?

All bisphosphonates are different. They are broadly subdivided in to 2 classes. Some mechanisms and properties are common to both classes but each molecule is different.

- **Bone Affinity:** the intensity with which tiludronate binds to bone has been evaluated and compared to other bisphosphonates: the results of the study demonstrated that binding ability of tiludronate was superior to other bisphosphonates of its class
- **Administration Route:** they have different administration recommendations: intramuscular, intravenous and oral routes depending on the molecule itself.
- **Efficacy and safety:** it can vary depending on bisphosphonate, its time of action, bone affinity, or administration route. No study compares directly clinical efficacy between bisphosphonates.

☐ **MACCLESFIELD
VETERINARY
HOSPITAL**
38 Cumberland Street
Macclesfield
Cheshire SK10 1BZ
Tel: 01625 501500
Fax: 01625 612240

☐ **CONGLETON
BRANCH**
18 Moody Street
Congleton
Cheshire CW12 4AP
Tel: 01260 273222

☐ **WILMSLOW BRANCH**
19 Hawthorn Lane
Wilmslow
Cheshire SK9 5DD
Tel: 01625 524422

☐ **FARM CENTRE**
The Barn - Holly Tree Farm
Holmes Chapel Road
Lower Withington
Macclesfield
Cheshire SK11 9DT
Tel: 01477 571000

☐ **WHALEY BRIDGE**
Block B
Ringstones Industrial Estate
Whaley Bridge
High Peak
Derbyshire SK23 7PD
Tel: 01663 732564

☐ **EQUINE CENTRE**
Somersford Park
Holmes Chapel Road
Somersford
Cheshire CW12 4SW
Tel: 01260 280800