



The analgesic effect of mepivacaine, when used as part of a lameness investigation, begins to subside after 45-60 minutes. However, sufficient analgesia may persist to effect gait beyond two hours.

Special precautions to be taken by the person administering the veterinary medicinal product to animals

Care should be taken to avoid accidental self-injection or skin contact. In the event of accidental self-injection medical advice should be sought. Wash splashes from skin or eyes immediately.

**4.6 Adverse reactions (frequency and seriousness)**

Transient, local soft tissue swelling may occur in a small proportion of cases following injection of the product.

Local anaesthetics used in excess can cause systemic toxicity characteristics by CNS effects.

If systemic toxicity occurs, as a result of inadvertent intra-vascular injection, the administration of oxygen to treat cardio-respiratory depression and diazepam to control convulsions should be considered.

**8. Use during pregnancy, lactation or lay**

Not contraindicated.

**9. Interaction with other medicinal products and other forms of interaction**

None known.

**4.9 Amounts to be administered and administration route**

Full aseptic precautions should be observed when injecting the product.

For infiltration: As required but as a guide 2-5 ml.

For nerve block: 2-10 ml depending on location.

For intra-articular anaesthesia: 5 ml.

For epidural anaesthesia: 4-10 ml depending on the depth and extent of anaesthesia required.

In all instances the dosage should be kept to the minimum required to produce the desired effect. The depth and extent of anaesthesia should be determined by pressure with a blunt point, such as the tip of a ball point pen, before commencing manipulations. The duration of action is about 1 hour. It is recommended that the skin should be shaved and thoroughly disinfected prior to the intra-articular or epidural administration.

#### **4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary**

Local anaesthetics used in excess can cause systemic toxicity characterised by CNS effects.

If systemic toxicity occurs, as a result of inadvertent intra-vascular injection, the administration of oxygen to treat cardio-respiratory depression and diazepam to control convulsions should be considered.

#### **4.11 Withdrawal period**

Not to be used in horses intended for human consumption. Treated horses may never be slaughtered for human consumption. The horse must have been declared as not intended for human consumption under national horse passport legislation.

### **5. PHARMACOLOGICAL PROPERTIES**

Mepivacaine hydrochloride is a potent local anaesthetic, with a rapid onset of action. Since it does not cause vasodilation it does not require adrenaline to prolong its effect. Mepivacaine has been employed successfully for all types of local anaesthesia and is recommended for infiltration, nerve block, intra-articular and epidural anaesthesia in the horse.

ATCvet Code: QN01BB03

#### **5.1 Pharmacodynamic properties**

The mechanism of action of mepivacaine is to prevent the generation and conduction of the nerve impulse. Conduction is blocked by decreasing or preventing the large transient increase in the permeability of excitable membranes to Na<sup>+</sup> that is produced by a slight depolarisation. This action is due to a direct effect with voltage-sensitive Na<sup>+</sup> channels. Mepivacaine exists in both charged and uncharged forms at physiological pH while the intracellular environment favours formation of the active, charged molecule. The onset of action of mepivacaine is, therefore, rapid (2-4 minutes) with an intermediate duration of action (about 1 hour).

#### **5.2 Pharmacokinetic particulars**

Peak venous levels of mepivacaine have been measured in mares following caudal epidural anaesthesia or caudal subarachnoid anaesthesia. The maximum venous concentrations were similar (0.05 µg/ml) and were reached in 51-55 minutes. In a separate study, mepivacaine or its metabolites appeared in the urine within 15 minutes of subcutaneous injection and reached peak levels within 2-6 hours. It was largely cleared from the urine within 24 hours. The major metabolite in horse urine is 3-hydroxymepivacaine.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Sodium chloride  
Water for injections  
Sodium hydroxide

### **10. Incompatibilities**

In the absence of compatibility studies, this veterinary medicinal product must not be mixed with any other veterinary medicinal product.

### **11. Shelf life**

Shelf life of the veterinary medicinal product as packaged for sale: 5 years.

This product does not contain an antimicrobial preservative. Once opened, use immediately. Discard any unused material.

### **6.4 Special precautions for storage**

Do not store above 25°C.

### **6.5 Nature and composition of immediate packaging**

Clear glass vials containing 10 ml, with a red chlorobutyl stopper and aluminium seals, are available in cartons of six.

### **6.6 Special precautions for the disposal of unused veterinary medicinal product or waste materials derived from the use of such products**

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal products should be disposed of in accordance with local requirements.

## **7. MARKETING AUTHORISATION HOLDER**

Dechra Limited  
Snaygill Industrial Estate  
Keighley Road  
Skipton  
North Yorkshire  
BD23 2RW  
United Kingdom

**12. MARKETING AUTHORISATION NUMBERS**

Vm 10434/4016

**13. DATE OF FIRST AUTHORISATION**

20 December 1990

**14. DATE OF REVISION OF THE TEXT**

August 2015

A handwritten signature in black ink, appearing to be 'Alan', with a horizontal line underneath.

Approved: 28 August 2015