

Elanco Animal Health

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Clomicalm

Species:	Dogs
Therapeutic indication:	Pharmaceuticals: Neurological preparations: Others
Active ingredient:	Clomipramine Hydrochloride
Product:	Clomicalm™
Product index:	Clomicalm

Qualitative and quantitative composition

Each tablet of Clomicalm contains: **Active substance:** Clomipramine hydrochloride 5 mg (equivalent to 4.5 mg Clomipramine) Clomipramine hydrochloride 20 mg (equivalent to 17.9 mg Clomipramine) Clomipramine hydrochloride 80 mg (equivalent to 71.7 mg Clomipramine) **Excipients:** For a full list of excipients, see section pharmaceutical particulars.

Pharmaceutical form

Tablets

Clinical particulars

Target species

Dog

Indications for use, specifying the target species

As an aid in the treatment of separation-related disorders in dogs manifested by destruction and inappropriate elimination (defaecation and urination) and only in combination with behavioural modification techniques.

Contraindications

Do not use in case of known hypersensitivity to clomipramine and related tricyclic antidepressants. Do not use in male breeding dogs.

Special warnings

The efficacy and safety of Clomicalm has not been established in dogs weighing less than 1.25 kg or under six months of age.

Special precautions for use

Special precautions for use in animals It is recommended that Clomicalm be administered to dogs with cardiovascular dysfunction or epilepsy with caution and only after an assessment of the benefit risk ratio. Because of its potential anticholinergic properties, Clomicalm should also be used

with care in dogs with narrow angle glaucoma, reduced gastrointestinal motility or urinary retention. Clomicalm should be used under veterinary supervision.

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

In children, accidental ingestion should be regarded as serious. There is no specific antidote. In case of accidental ingestion, seek medical advice immediately and show the product label to the physician. Overdose in human beings causes anticholinergic effects although central nervous and cardiovascular systems may also be affected. People with known hypersensitivity to clomipramine should administer the product with caution.

Adverse reactions (frequency and seriousness)

Clomicalm may very rarely cause vomiting, changes in appetite, lethargy or an elevation in liver enzymes, which is reversible when the product is discontinued. Hepato-biliary disease has been reported, especially with pre-existing conditions, and concurrent administrations of drugs metabolized via the hepatic system. Vomiting may be reduced by co-administration of Clomicalm with a small quantity of food.

Use during pregnancy, lactation or lay

The safety of the veterinary medicinal product has not been established in female dogs during pregnancy and lactation. Laboratory studies in mice and rats have shown evidence of embryotoxic effects.

Interaction with other medicinal products and other forms of interaction

Recommendations on the interaction between Clomicalm and other medicaments are derived from studies in species other than dogs. Clomicalm may potentiate the effects of the anti-arrhythmic drug quinidine, anticholinergic agents [e.g. atropine], other CNS active drugs [e.g. barbiturates, benzodiazepines, general anaesthetics, neuroleptics], sympathomimetics [e.g. adrenaline] and coumarin derivatives. The administration of Clomicalm is not recommended in combination with, or within 2 weeks of therapy with, monoamine oxidase inhibitors. Simultaneous administration with cimetidine may lead to increased plasma levels of clomipramine. Plasma levels of certain anti-epileptic drugs, such as phenytoin and carbamazepine, may be increased by co-administration with Clomicalm.

Amounts to be administered and administration route

Clomicalm should be administered orally at a dose of 1-2 mg/kg clomipramine twice daily to give a total daily dose of 2-4 mg/kg according to dosage guide below.

Body Weight	Clomicalm 5mg	Clomicalm 20 mg	Clomicalm 80 mg
1.25-2.5kg	0.5 tablet		
>2.5-5kg	1 tablet		
>5-10kg		0.5 tablet	
>10-20kg		1 tablet	
>20-40kg			0.5 tablet
>40-80kg			1 tablet

Clomicalm may be given with or without food. In clinical trials, a treatment time of 2-3 months with Clomicalm in combination with behavioural modification techniques was sufficient to control the symptoms of separation-related disorders. Some cases may require longer treatment. In cases showing no improvement after 2 months, treatment with Clomicalm should be ceased.

Overdose (symptoms, emergency procedures, antidotes), if necessary

At overdose with 20 mg/kg Clomicalm [5 times the maximum therapeutic dose], bradycardia and arrhythmias (atrioventricular node block and ventricular escape beats) were observed approximately 12 hours after dosing. Overdose with 40 mg/kg [20 times the recommended dose] of Clomicalm produced hunched posture, tremors, flushed abdomen and decreased activity in dogs. Higher doses [500 mg/kg i.e. 250 times the recommended dose] produced emesis, defecation, drooped eyes, trembling and quietness. Still higher doses [725 mg/kg] produced, in addition, convulsions and death.

Withdrawal period

Not applicable.

Pharmacological particulars

Pharmacotherapeutic group: Non-selective monoamine re-uptake inhibitors,

ATCvet code: QN06AA04.

Pharmacodynamic properties

Clomipramine has a broad-spectrum of action in blocking the neuronal reuptake of both serotonin (5-HT) and noradrenaline. It therefore possesses the properties of a serotonin re-uptake inhibitor and a tricyclic antidepressant.

The active components *in vivo* are clomipramine and its major metabolite, desmethylclomipramine. Both clomipramine and desmethylclomipramine contribute to the effects of Clomicalm: clomipramine is a potent and selective 5-HT reuptake inhibitor while desmethylclomipramine is a potent and selective noradrenaline reuptake inhibitor. The principle mechanism of action of clomipramine is potentiation of the effects of 5-HT and noradrenaline in the brain by inhibiting their neuronal reuptake. In addition, clomipramine has anticholinergic effects by antagonism of cholinergic muscarinic receptors.

Pharmacokinetic particulars

Clomipramine is well absorbed (>80%) from the gastrointestinal tract in dogs when administered orally but the systemic bioavailability for clomipramine and desmethylclomipramine is 22-26% due to extensive first pass metabolism by the liver. Peak plasma levels of clomipramine and desmethylclomipramine are rapidly reached (approx. 1.5-2.5 hours). The maximal plasma concentrations (C_{max}) after oral administration of single doses of 2 mg/kg clomipramine hydrochloride were: 240 nmol/l for clomipramine and 48 nmol/l for desmethylclomipramine. Repeated administration of Clomicalm causes moderate increases in plasma concentrations, accumulation ratios after oral administration twice daily were 1.2 for clomipramine and 1.6 for desmethylclomipramine, with steady state being reached within 3 days. At steady state, the ratio of plasma clomipramine to desmethylclomipramine concentrations is approximately 3:1. Administration of Clomicalm with food causes moderately higher plasma AUC values for clomipramine [25%] and desmethylclomipramine [8%] as compared with administration to fasted dogs. Clomipramine is extensively bound to plasma proteins (>97 %) in dogs. Clomipramine and its metabolites are rapidly distributed in the body in mice, rabbits, and rats with high concentrations being achieved in organs and tissues (including the lungs, heart and brain) and low concentrations remaining in the blood. In dogs, the volume of distribution (V_{Dss}) is 3.8 l/kg. The major route of biotransformation of clomipramine is demethylation to desmethylclomipramine. Additional polar metabolites also exist. The elimination t_{1/2} after intravenous administration of clomipramine hydrochloride in dogs was 6.4 hours for clomipramine and 3.6 hours for desmethylclomipramine. The principle route of excretion in dogs is via the bile (>80%) with the remainder via the urine.

Pharmaceutical particulars

List of excipients

Lactose monohydrate

Microcrystalline cellulose

Artificial meat flavour

Crospovidone

Povidone

Colloidal anhydrous silica

Magnesium stearate

Incompatibilities

None known.

Shelf life

Shelf-life of the veterinary medicinal product as packaged for sale: 4 years

Special precautions for storage

Store in the original container.

Nature and composition of immediate packaging

One HDPE bottle with child resistant closure and sealing disk, containing 30 tablets and one silica gel desiccant sachet, packed within a cardbox.

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 product should be disposed of in accordance with local requirements.

Marketing Authorisation Holder (if different from distributor)

NA

Marketing Authorisation Number

EU/2/98/007/001-003

Significant changes

Date of the first authorisation or date of renewal

1 April 1998 / 19 May 2003

Date of revision of the text

Any other information

Legal category

Legal category: POM-V

GTIN

GTIN description: Clomicalm 5mg

GTIN: 05037694001292

GTIN description: Clomicalm 20mg

GTIN: 05037694001308

GTIN description: Clomicalm 80mg

GTIN: 05037694001315

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Date: Thursday, November 8, 2018 13:59