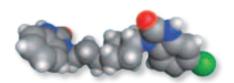
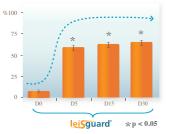
leiSguard®

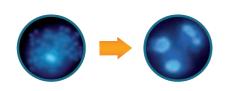
 leiSquard[®] is a domperidone-based oral suspensión that activates the phagocytic cells very shortly after treatment initiation (2 days) and increases their leishmanicidal capacity^{3,4,5}, therefore reinforcing the first defense barrier of dogs against Leishmania infection.

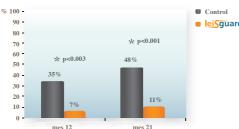


- In case of an eventual contact with Leishmania parasites, leiSquard[®] helps the dog to fight against the infection by orientating its immune response towards a predominantly celular (Th1) component⁽⁶⁾, wich is largely recognised to be protective against the disease⁽¹⁾.
- In controlled and randomized clinical field trials performed in endemic areas with dogs of different age, sex, weight and breed, strategic administration of lei **Squard** during those periods with the highest risk of infection has shown an efficacy of 80-100% in preventing the disease^{7,8}.



Percentage of activated phagocytic cells during a 30-day treatment with lesiquard in healthy dogs.





Percentage of diseased dogs 12 and 21 month after the start of a preventive program with leisguard compared with a control (untreated) group in an endemic area with high prevalence.

leiSguard

Recommendations:

- When preparing a trip to an endemic zone, a preventive treatment with **Leisquard**° should be given starting preferably one week before departure or as soon as possible after arrival.
- Treatment should be maintained for one month regardless of the length of the stay.
- If the dog remains in an endemic zone for more than 3 months, a preventive treatment strategy should be established according to the prevalence of the area. Read product information for details.
- A quantitative serological test some 4-6 months after the trip would detect any possible infection early enough to start a treatment with **Leisquard**° with excellent prognosis^{9,10}.



the tool you need to let your clients enjoy their Mediterranean holidays safely!



Domperidone-based oral suspension (5 mg/ml). Dose: 1 ml/10 kg /day for 30 days.

- ✔ Protects your dog from the 2nd day ✔ Excellent tolerance. of treatment.
- ✓ Reduces the possibility of infection 7,2 times.
- Can be given to all dogs of any age.
- ✔ It can be administered to all dogs, including infected and non -infected individuals.

- **✓ Compatible** with other treatments.
- ✓ Allows serological monitoring.
- ✓ Very palatable.
- ✓ Can be easily administered within the food.

For further information do not hesitate to contact ECUPHAR GmbH:

E-mail: info@ecuphar.de Tel: +49 3834 835840



Canine leishmaniosis is a threatening disease for dogs travelling to the **Mediterranean region**



the tool you need to let your clients enjoy their Mediterranean holidays safely!





- The increased numbers of dogs travelling to Southern Europe have raised serious concerns about the introduction of vector-borne diseases, such as canine Leishmaniosis into the non-endemic areas of Europe^{1,2}.
- Many dogs die every year in countries like Spain, Portugal, Italy, Greece and other Mediterranean countries because of canine Leishmaniosis. Up to 35% of dogs in this region are silent carriers of the parasite.
- A short stay in an endemic zone can be sufficient to be infected by transmitting sand flies (*Phlebotomus spp.*).
- The course of the disease is silent during months after infection and the first clinical signs may appear to be unrelated to any recent stay in the area of risk.
- Infected dogs in non-endemic areas may also contribute to the maintenance of the parasite within the canine population through rare but possible non-vector transmission modes of infection



Non endemic areas

Countries or areas where cases are typically not autochthonous (travelling or imported dogs)

Expected presence of known vectors and clinical cases

Autochthonous cases

Rare individual cases that have never travelled to endemic areas (vectorial / non vectorial transmission?)

Autochthonous foci

(kennels with vectorial / non vectorial transmission?) (published or known by the authors)

Areas with multiple cases (abundant and active vectors) The prevalence and distribution of the disease are not uniform but highly dependent on microclimate and microhabitats

In many countries detailed information is still lacking

The northern limits of endemic areas are not well known. The limits presented are estimated according to the scientific literature and unpublished information

Distribution of canine L. infantum infection in Europe. (Solano - Gallego et. al 2011)







leiSquard® Oral Suspension for Dogs

Composition: 5 mg Domperidone/ml.

Dosage: 1 ml/10 kg of **Leisguard**°, once daily. Shake well before use. **Leisguard**° may be administered directly into the mouth or mixed with food. To ensure a correct dosage, body weight should be determined as accurately as possible.



- **Prevention:** In healthy animals, a treatment during 4 consecutive weeks induces a fast activation of the cell-mediated immune response leading to the establishment of an effective barrier against infection in case of eventual exposure to
- Treatment: In seropositive animals with low to moderate positive antibody levels and mild clinical signs (such as peripheral lymphadenopathy or papular dermatitis), treatment during 4 consecutive weeks is effective for the control of the clinical progression of the disease. In these cases, Leisquard* treatment should be started immediately after diagnosis in order to help animals to self-limit the disease. Improvement of clinical signs is gradually achieved during the following weeks after the end of treatment. Treatment with **Leisquard*** may be repeated as needed, in accordance with the clinical and serological follow up performed by the attending veterinarian.

Contraindications: Do not use whenever stimulation of gastric motility might be dangerous eg. In the presence of gastrointestinal haemorrhage, mechanical obstruction or perforation. Do not use in animals with a known hypersensitivity to domperidone or any of the excipients. Do not use in animals with prolactin-secreting pituitary tumor. Domperidone is metabolized by the liver, therefore it should not be administered to animals with liver failure.

Adverse reactions: At the dosages and duration recommended leisguard* is very well tolerated. In clinical trials rare cases of galactorrhoea during treatment with were reported. This is considered a consequence of the prolactine peaks induced by domperidone, which disappear after treatment discontinuation.

Marketing authorisation holder: Ecuphar Veterinaria S.L.

REFERENCES

- 1. Solano-Gallego, L., Koutinas, A., Miró, G., Cardoso, L. Pennisi, M.G., Ferrer, L., Bourdeau, P., Oliva, G., Baneth, G. Directions for the diagnosis, clinical staging, treatment and prevention of canine leishmaniosis. Veterinary Parasitology 165 (2009) 1–18.
- 2. Solano-Gallego L, Miró G, Koutinas A, Cardoso L, Pennisi Mg, Ferrer L, Bourdeau P, Oliva G, Baneth G, LeishVet guidelines for the practical management of canine leishmaniosis. The LeishVet Group. Parasit Vectors., 2011; May 20;4:86.
- 3. Gómez-ochoa P, Gascón M, Castillo J.A. Estudio de un nuevo tratamiento de la leishmaniosis canina. Valoración del efecto inmunomodulador de la domperidona, Tesis Doctoral, Universidad de Zaragoza, 2004.
- 4. Gómez-Ochoa, P.; Sabaté, D.; Homedes, J.; Ferrer, L. Use of the nitroblue tetrazolium reduction test for the evaluation of Domperidone effects on the neutrophilic function of healthy dogs. Veterinary Immunology and Immunopathology 2012, 146:97-99
- 5. Gómez-ochoa P, Sabate D. A study of the response of macrophage derived from circulating monocites of healthy dogs treated with EV-4820. to the in vitro infection with Leishmania infantum. ESTEVE veterinaria Internal Report: EV-07/09-SN, 2009.
- 6. Larraga V, Carrasco M, Rodon J. Study of the effect of Domperidone administered by oral route at two different dosages on the cellmediated immune response in healthy Beagle dogs. CIB-CSIC Internal Report nr: CIN/EV-05/03-SN, 2007
- 7. Llinás J, Gómez-Ochoa P, Sabaté D, Homedes J, Ferrer L. Clinical efficacy of a domperidone-based treatment program for the prevention of canine leishmaniosis. Proceedings of the 46th AVEPA-SEVC Congress, 2011.
- 8. Gómez-Ochoa, P.; Sabaté, D.; Homedes, J.; Ferrer, L. Clinical efficacy of a Leisguard®-based program strategically established for the prevention of canine leishmaniosis in endemic areas with low prevalence. Proceedings of the 73° Congresso Internazionale Multisala SCIVAC, Rimini 2012, p. 545
- 9. Gómez-Ochoa P, Sabaté D, Homedes H, Ferrer L. Efficacy of domperidone for the treatment of mild and moderate cases of canine leishmaniosis: clinical and immunological short-term follow-up. Proceedings of the 21st ECVIM Congress, 2011; abstract no. Im-0-10
- 10. Gómez-Ochoa, P., Castillo, J.A. Gascón, M., Zarate, J.J., Alvarez, F., Couto, C.G. Use of domperidone in the treatment of canine visceral leishmaniasis: A clinical trial. The Veterinary Journal 179 (2009) 259-26

