

Neurophysiological, behavioral and cognitive-enhancing effects of adrafinil in the aging canine

National Library of Canada - Oral Administration of Adrafinil Improves Discrimination Learning in Aged Beagle Dogs



Description: -

-neurophysiological, behavioral and cognitive-enhancing effects of adrafinil in the aging canine

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Adrafinil is a novel vigilance promoting agent developed in France by Louis Lafon Laboratories. Adrafinil causes increased locomotion without producing stereotypical activity in canines tested in an open field. The improved learning may also result from enhancement of vigilance due to facilitation of noradrenergic transmission in the central nervous system.

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Through the use of standardized neuropsychological testing protocols, a number of drugs, natural products and supplement formulations have been developed for use in dogs with cognitive dysfunction and, in some cases clinical trials have validated their efficacy.

Adrafinil: effects on behavior and cognition in aged canines

On the other hand, dogs that are trained to more exacting tasks such as guide dogs for the visually impaired, or bomb detection and agility trained dogs might be noticed to have a decline in performance at a much earlier age.

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Adrafinil causes a long-lasting increase in....

Therapeutic agents for the treatment of cognitive dysfunction syndrome in senior dogs

Acquisition of a size discrimination problem is enhanced by adrafinil. The effectiveness of a single treatment is long-lasting, and the effectiveness persists over repeated treatments. A decline in learning and memory can be demonstrated in dogs beginning as young as 7 years of age using a variety of neuropsychological tests.

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Treatment with adrafinil produced significant improvement in learning, as indicated by a decrease in both errors and trials to criterion. An effect of adrafinil on motivation may partially account for these findings; however, adrafinil did not significantly affect response latency. Adrafinil causes increased locomotion without producing stereotypical activity in canines tested in an open field.

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