

Lipid Replacement Therapy in Canine Atopy



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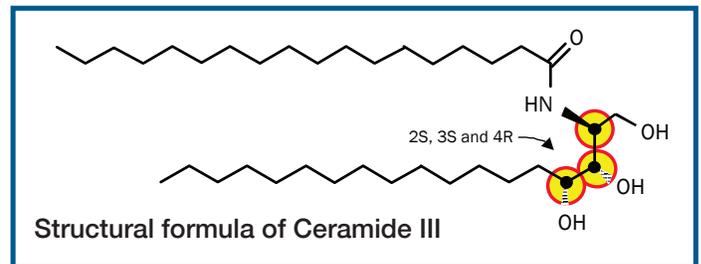
There is accumulating evidence that seems to support a barrier defect in the pathogenesis of canine atopic dermatitis. One of the main findings is an increase in the amount of transepidermal

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water loss (TEWL) in affected patients due to the breakdown of the “mortar” between the cells of the epidermis. Ceramides are the main components of the extracellular lipid lamellae and are key factors in preventing TEWL. By supplementing the skin with exogenous ceramides through lipid replacement therapy, we may be able to help in restoring normal barrier function. There is even some data that suggests that topically applied ceramides permeate the stratum corneum, are packaged into lamellar bodies and are then secreted back into the stratum corneum; a somewhat return to normalcy.

ceramide-3, aim to do this, that is, supplement the skin with what is missing. This may help in restoring the normal barrier function by reducing TEWL and there is some data that suggests that the molecule may help in repairing dry or damaged skin. This in theory could lead to reduced flares of atopic dermatitis, fewer secondary infections, and an overall improved quality of life for the patients and their owners.

Consequently, long-term benefits in affected individuals could only be achieved through maintaining adequate ceramide levels. This would mean that repeated exposure to topically applied ceramides is necessary for optimal results. Products that contain ceramides, such as



Canine with Atopy

