

# A CASE REPORT ON THE EFFECTS OF A SPHINGOMYELIN-RICH LIPID EXTRACT COLLAR IN A DOG WITH SEBACEOUS ADENITIS UNRESPONSIVE TO CICLOSPORIN AND SHAMPOO THERAPY

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Oral ciclosporin with topical humectants are commonly used for treating canine sebaceous adenitis (SA), although with unsuccessful results in some cases.

- A nine-year-old, neutered female mongrel dog was presented for evaluation of exfoliative dermatitis of 12 months' duration.
  - Dermatological exam revealed erythema, follicular casts, scaling, and diffuse hypotrichosis affecting the pinnae, neck, and flanks.
  - Histopathological evaluation confirmed SA diagnosis after observing mild-to-moderate orthokeratotic hyperkeratosis, marked hyperpigmentation with pigmentary incontinence, generalized absence of sebaceous glands, a moderate perianexal and perivascular lymphoplasmacytic inflammatory infiltrate, mural folliculitis with mild lymphoplasmacytic hidradenitis, follicular atrophy and keratosis, and perifollicular fibrosis.
- Treatment was started with oral ciclosporin (5mg/kg q24h) and a seoregulating shampoo (Douxo® S3 Seb, Ceva, France) once weekly and topical phytosphingosine (Douxo® Seb Spot-On, Ceva, France) twice weekly.

- After 3 months, the dog still presented with pruritus, adherent crusts and follicular casts, and a strong smell. At that point, treatment was complemented with a sphingomyelin-rich lipid extract collar (Atopivet® collar, Bioiberica S.A.U., Spain) (Figure 1) which had previously been reported to increase the levels of epidermal ceramides and lamellar bodies, enhance the expression of skin filaggrin and antimicrobial peptides and to lead to clinical improvements in atopic dogs.



Figure 1. Sphingomyelin-rich lipid extract collar used in this case.

- Eight weeks after, the patient showed a remarkable reduction in pruritus score (Figure 2), erythema, smell, and hair loss (Figure 3).

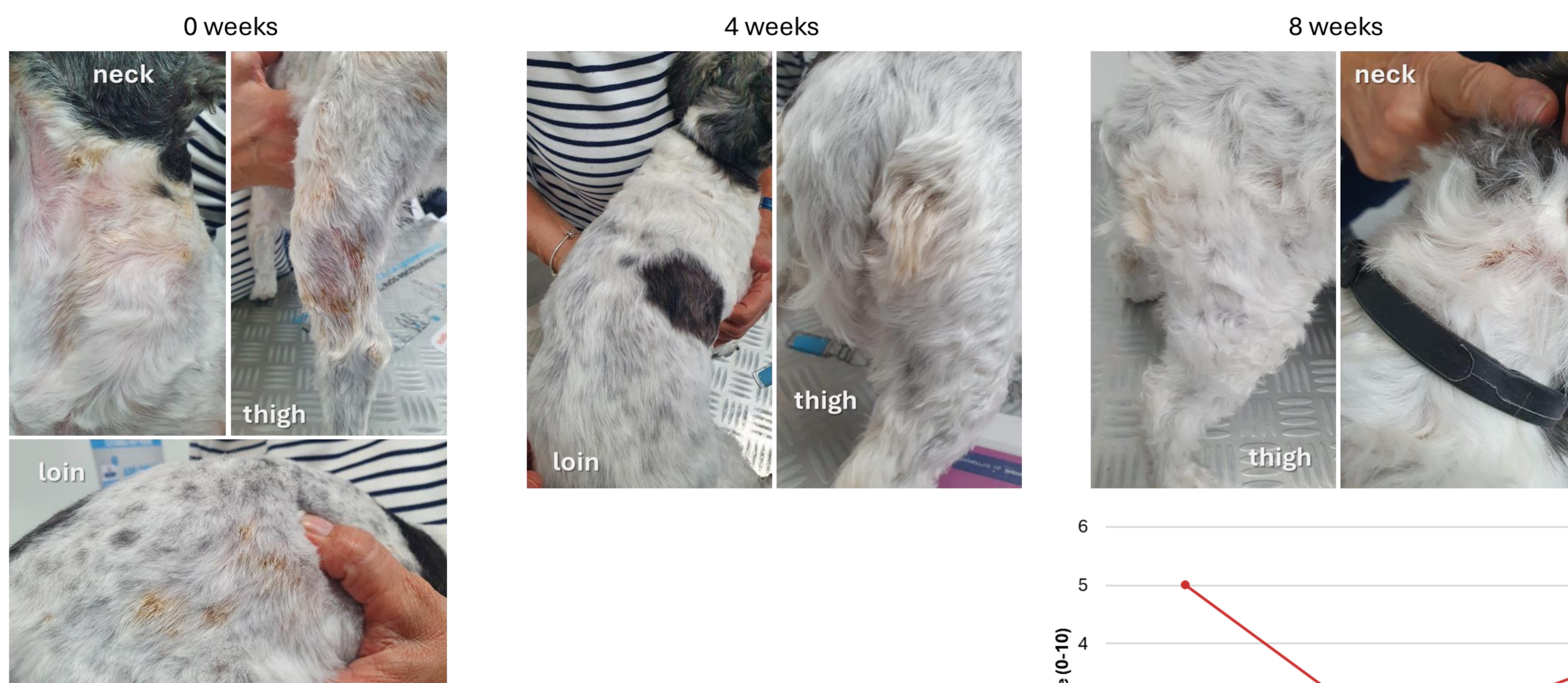


Figure 3. Representative photographs of the case at 0 weeks, and after 4 and 8 weeks of application of the sphingomyelin-rich lipid extract collar.

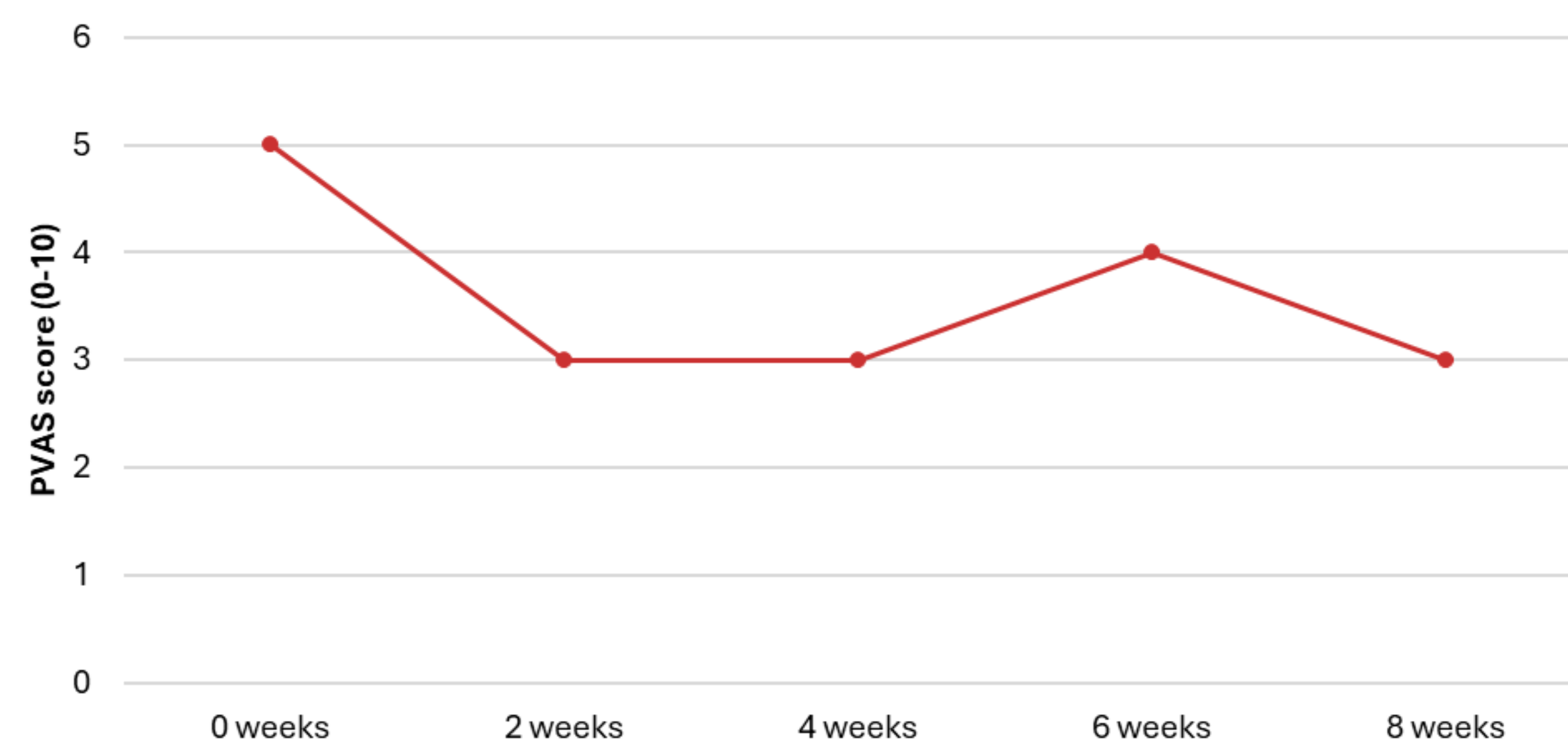


Figure 2. Evolution of the PVAS score over time.

Although further studies are warranted, Atopivet® collar could serve as a convenient complementary tool and/or as sparing agent for managing skin conditions other than atopic dermatitis in which there is inflammation, altered skin barrier and need for adequate treatment compliance, including sebaceous adenitis.