Case Report: Canine Alopecia X Treated with Triostane

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Abstract Alopecia X is a rare endocrine dermatosis which its pathogenesis still remain unclear. Except for dermatological signs such as symmetrical general trunk alopecia, affected dogs are healthy. In this case, a three-year-old intact male Pomeranian is presented with generalized alopecia and moderate hyperpigmentation on the trunk. The dog began to lose hair since one year old without any systemic clinical sign. Unilateral inguinal cryptorchidism was found on physical examination. Blood examinations for CBC, biochemistry, serum total T4, testosterone were tested. ACTH stimulation test and skin biopsy were also performed. According to the normal blood examinations, hyperadrenocorticism and hypothyroidism were rule out. Skin histopathological findings showed diffuse follicular atrophy with flame follicles formation and follicular keratosis. The patient was diagnosed as alopecia X based on the normal blood examinations and skin histopathological findings. Castration and administration of melatonin for two months were prescribed. Without obvious improvement, triostane in dose of 17mg per dog once daily was given for the following two months. Mild response and no perceived side effect were observed, the dosage was increased to 30 mg per dog once daily. The hair regrew in a satisfied state after one month of therapy. To the authors’ knowledge, this is the first case of Alopecia X successfully treated with triostane in Taiwan. It can provide a new alternative therapy and an experience for clinicians.

Key Words: Alopecia X, Dog, Triostane