Feline Herpesvirus-1 as a differential diagnosis for feline facial pruritus

Feline patients with allergic disease can present clinically with a reaction pattern known as head and neck pruritus. This severe and most frustrating of feline reaction patterns can result in dramatic mutilation and is often refractory to numerous treatments. A typical list of differential diagnoses includes: parasites (i.e. Notoedres, Demodex gatoi, Otodectes) and allergic disease (Flea allergy, food allergy and atopy). Often overlooked is the possibility of feline herpesvirus ulcerative dermatitis. Feline Herpesvirus-1 (FHV-1) is most commonly associated with upper-respiratory tract disease, including rhinotracheitis and keratoconjunctivitis. Following primary infection, it is harbored in the trigeminal ganglion in latency. Following immunosuppression or stress, viral replication can reactivate and result in recurrence.

This recurrence may present as a striking eosinophilic dermatitis of the face and/or nasal planum (occasionally on the extremities) that is easily mistaken by both clinicians and histopathologists for allergic eosinophilic dermatitis or eosinophilic granuloma complex. While the literature indicates pruritus may be moderate to absent (Gross et al., 2005), some cases have marked pruritus and resulting self-mutilation which compounds the clinical confusion with allergic pruritus. This commonly results in a fruitless diagnostic work-up for allergic disease as well as ineffectual and possibly aggravating immunosuppressive therapeutics.

Histopathology of biopsy specimens reveals a necrotizing eosinophilic dermatitis. Intranuclear viral inclusions may not be present or may be easily missed by the histopathologist. Both PCR and immunohistochemical techniques have been investigated and validated as screening tools for herpetic dermatitis (Hargis et al., 1999, Persico et al., 2011). However, the discovery of the safe and effective use of the human antiviral, Famciclovir, has revolutionized our ability to both diagnose and treat this disease (Thomasy et al., 2006, Malik et al., 2009, Thomasy et al., 2011). The author recommends a 2 to 3 week empirical course of Famciclovir as a diagnostic rule out in cases of feline facial dermatitis and pruritus where herpes may be suspected (125 mg PO BID). In the author’s experience, response is noted in many cases of nebulous feline facial excoriation and dermatitis that were previously misdiagnosed as allergic in etiology and treated unsuccessfully with steroids and/or cyclosporine. The veterinary practitioner should be mindful of this insidious differential diagnosis when confronted with refractory feline facial dermatitis cases.

REFERENCES

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