

# ACRAL LICK DERMATITIS

## About the Diagnosis

Acral lick dermatitis, also known as lick granuloma, is a self-induced skin lesion. The term *acral* refers to the legs and feet. The dog continually licks at one area of the leg, producing hair loss, sores, and thickening of the skin. Typical appearance is a raised, red, hairless, oval patch of skin or skin lump found over the front surface of one leg. Occasionally, more than one leg may be affected. The most common locations are over or near the carpus ("wrist") of the front foot or just below or above the hock on the rear leg. Breeds most likely to develop acral lick dermatitis include the Doberman pinscher, Great Dane, Labrador retriever, Irish setter, golden retriever, and German shepherd, but any breed of dog can be affected. Males are affected twice as often as females. The condition may appear at any age; however, most dogs are over 5 years of age when presented for treatment. Although several conditions that cause discomfort of the skin can cause persistent licking (see Diagnosis below), in many dogs with acral lick dermatitis no underlying problem can be found. In these cases, acral lick dermatitis is considered a psychogenic disease; that is, it is caused by a behavioral disorder. For example, sometimes excessive licking or chewing can result from boredom or can be used as attention-seeking behavior; sometimes anxiety is the stimulus for stereotypic behaviors like repetitive licking. Stereotypic behaviors are excessive, repetitive behaviors engaged in to relieve psychological distress such as boredom or anxiety.

**Diagnosis:** Several other skin conditions may appear similar to acral lick dermatitis. These include skin tumors, granulomas (masses due to chronic inflammation), and deep bacterial or fungal infections. In addition, several conditions that cause pain or itching can be involved in the development of lick granulomas, since dogs will lick areas where they feel discomfort. Depending upon the appearance of the skin lesion and your pet's history, your veterinarian may need to run several tests to eliminate similar conditions and underlying disorders, including skin scrapings, bacterial or fungal cultures, and skin biopsies. In some cases, x-rays may be warranted to look for joint or bone disease, such as arthritis, or bone infections that can cause pain and therefore cause a dog to lick over the painful area incessantly. A history of trauma or surgery in the area might indicate possible nerve damage as a source of discomfort. A variety of conditions that cause itching can contribute to the development of acral lick dermatitis; these include allergies, skin infections, and skin parasites (fleas, mange, etc.). If no underlying disease can be found, then by exclusion, psychogenic factors are assumed to be the cause of the dog's constant licking.

Therefore, the first step in evaluating a dog thought to have acral lick dermatitis is to rule out other contributory medical and skin conditions (above). Once acral lick dermatitis is confirmed to be the problem, a very valuable form of evaluation is consultation with a veterinary behaviorist. These are veterinarians who specialize in assessment and treatment of behavioral disorders such as acral lick dermatitis. These specialists are known as Diplomates of the American College of Veterinary Behaviorists. Your veterinarian should be able to refer you to one of these Diplomates in your area, or by telephone, to better identify and correct the psychological/behavioral trigger that is leading to the incessant licking.

## Living with the Diagnosis

Acral lick dermatitis can be challenging to treat. Medications may help. Often the visible skin lesion is only the surface of the problem, and the root cause is psychological or behavioral. Therefore, the frustration of dealing with a dog that is compulsively licking needs to be met with an understanding that some sort of underlying trigger may exist and that dealing with that trigger is critical to solving the problem. Response to treatment depends upon correction of the underlying cause. Many cases require long-term management and adjustment of treatments when the lesion reappears. It is worth remembering that stressful changes in your pet's life may precipitate reoccurrence of the problem.

## TREATMENT

There are many approaches to treating acral lick dermatitis, and some trial and error is usually needed to find the best treatment for an individual dog. Since deep bacterial infections of the skin usually are present as well (secondary problem due to the damage of licking), antibiotic pills are usually given for several weeks. The affected skin area can be treated directly with a variety of medications, including topical treatments and injections. Bitter-tasting topical solutions are sometimes applied to discourage licking. Most treatments applied to the lesion are aimed at altering the sensation in the skin. Agents used include corticosteroids, DMSO, capsaicin, anti-inflammatory drugs, and antihistamines. Additional treatments aimed at reducing itching or painful sensations include acupuncture, laser surgery, or cryosurgery. Removal of the lesion with conventional surgery, laser

surgery, or cryosurgery is also advocated by some veterinarians. Some degree of relief can also sometimes be brought about by frequently bandaging the leg and/or placing an Elizabethan collar on the dog to break the cycle of licking-itching.

Behavioral components of the condition also need to be addressed. Boredom can be alleviated by increasing playtime, introducing another animal as a playmate, reducing confinement time, or keeping the pet occupied with toys such as those with openings for treats (e.g., Kong-type toys). Several behavioral modification training techniques can be used. Stressful conditions should be eliminated, when possible. Antidepressant and anti-anxiety drugs may also be helpful in some dogs.

## **DOs**

- Be diligent and persistent with treatment. Hair regrowth and reduced compulsion to lick happen very slowly.

## **DON'Ts**

- Avoid blaming or acting exasperated with a dog with acral lick dermatitis. Unfortunately, compulsive licking can truly be exasperating, but yelling at or punishing dogs for doing this simply does not register with them and often can make them more compulsive. In other words, harsh words and punishment for licking behaviors tend to be totally counterproductive.
- Don't assume that the problem is entirely in the skin, or entirely in the dog's mind. Oftentimes, a combination of behavioral factors and skin factors is to blame for acral lick dermatitis.

## **Signs to Watch For**

- Persistent licking or chewing at one area on the foot or leg.
- Hair loss, irritated skin, and eventually a raised, shiny, reddened area on the skin.

## **Routine Follow-Up**

- Because determining the best treatment of acral lick dermatitis often requires trial and error, several visits may be necessary to determine the optimal combination of treatments for your dog.
- Once the right treatment is found, the visits become much less frequent—generally just routine checkups.