

# Hair Loss (Alopecia) in Cats

## Basics

### OVERVIEW

- “Alopecia” is the medical term for hair loss
- Hair loss is a common problem in cats
- Characterized by a complete or partial lack of hair in areas where it is present normally
- Pattern of hair loss—varied or symmetrical

### SIGNALMENT/DESCRIPTION OF PET

#### Species

- Cats

#### Mean Age and Range

- Cancer-related hair loss (alopecia)—generally recognized in older cats

### SIGNS/OBSERVED CHANGES IN THE PET

- Hair loss; pattern of hair loss varies—may be localized or widespread
- Skin itself may appear normal or may be abnormal (such as redness; multiple, pinpoint bumps or scabs; or loss of superficial layers of the skin [known as ulceration])
- Other signs depend on the underlying cause of hair loss

### CAUSES

- Nervous system or behavioral disorders—compulsive disorder, in which the cat over-grooms, with resulting hair loss
- Hormonal disorders—sex hormone hair loss (alopecia); excessive levels of thyroid hormone (known as “hyperthyroidism”); increased levels of steroids produced by the adrenal glands (known as “hyperadrenocorticism” or “Cushing's syndrome”); diabetes mellitus (“sugar diabetes”)
- Immune-mediated disorders—skin allergies (known as “allergic dermatitis”); specific condition characterized by multiple patches of hair loss (known as “alopecia areata”); other disorders
- Parasites—demodectic mange (known as “demodicosis”); itchy skin disease caused by infestation with *Cheyletiella*, a type of mite (condition known as “cheyletiellosis” or “walking dandruff”)
- Fungal infection—ringworm (known as “dermatophytosis”)
- Physiologic or metabolic disorder—condition characterized by multiple areas of hair loss with reddened skin, scales (accumulations of surface skin cells, such as seen in dandruff), and signs of itchiness (known as “pruritus”) with inflammation of the sebaceous glands, the glands that produce oils in the hair coat (condition



known as “sebaceous adenitis”)

- Cancer or cancer-related hair loss (such as squamous cell carcinoma *in situ*)
- Unknown cause (so-called “idiopathic disease”)
- Inherited hair loss
- Injection-site reaction, leading to hair loss
- Effects of medications—steroids
- Viral infection—feline leukemia virus (FeLV) and feline immunodeficiency virus (FIV) associated diseases

## RISK FACTORS

- FeLV infection and FIV infection—for demodectic mange (demodicosis)

## Treatment

### HEALTH CARE

- Treatment is limited for many of the disorders that cause hair loss (alopecia)
- Behavioral modification or use of a “T-shirt” on the cat may protect the hair coat and help prevent excessive self-grooming
- Shampoo and treatment applied directly to the skin may relieve secondary problems if the cat is compliant, such as increased thickness of the outer, keratinized layer of the skin (known as “hyperkeratosis”) in sebaceous adenitis; dried discharge on the surface of the skin lesion (known as a “crust”) in demodectic mange (demodicosis); secondary bacterial infections; and malodor for greasy conditions

### DIET

- Removal of an offending dietary item and use of a restricted ingredient diet may alleviate signs of food allergy (such as hair loss, scratching at skin)

### SURGERY

- Biopsy of a tumor or the skin may be indicated in the diagnostic workup for some causes of hair loss (alopecia)
- Excessive levels of steroids produced by the adrenal glands (hyperadrenocorticism or Cushing's syndrome)—surgical removal of the adrenal gland
- Surgical removal of skin cancer or tumors

## Medications

Medications presented in this section are intended to provide general information about possible treatment. The treatment for a particular condition may evolve as medical advances are made; therefore, the medications should not be considered as all inclusive

- Compulsive disorder—amitriptyline as well as other behavior-modifying medications such as gabapentin
- Hormonal hair loss (alopecia) in males—testosterone supplementation
- Skin allergy (allergic dermatitis)—antihistamines, restricted ingredient diets, steroids, “allergy shots” (known as “hyposensitization vaccine”); medications to control parasites on the skin
- Excessive levels of thyroid hormone (hyperthyroidism)—medications given by mouth, such as methimazole (Tapazole®), or radioactive iodine therapy
- Diabetes mellitus (“sugar diabetes”)—regulation of glucose levels with insulin
- Excessive levels of steroids produced by the adrenal glands (hyperadrenocorticism or Cushing's syndrome)—surgery; no known effective medical therapy
- Cancer-related hair loss (alopecia)—no therapy for many types of cancer-related hair loss; disease often fatal
- Epitheliotropic lymphoma (type of cancer in the skin characterized by the presence of abnormal lymphocytes; a lymphocyte is a type of white blood cell, formed in lymphatic tissue throughout the body)—retinoids (isotretinoin), steroids, interferon, cyclosporine, lomustine
- Sebaceous adenitis (condition with hair loss, reddened skin, scales, and inflammation of the oil-secreting sebaceous glands)—retinoids, steroids, cyclosporine
- Squamous cell carcinoma (type of skin cancer)—retinoids (applied to skin directly [topical] and administered by

mouth [oral]), topical imiquimod cream

- Alopecia areata (specific condition involving multiple patches of hair loss)—no therapy; possibly counterirritants
- Demodectic mange (demodicosis)—lime sulfur dips at weekly intervals for 4–6 dips
- Cheyletiellosis—medications applied to the skin to kill the *Cheyletiella* mite (medications known as “topical parasiticides”), environmental control
- Ringworm (dermatophytosis)—griseofulvin, itraconazole, terbinafine

## **Follow-Up Care**

### **PATIENT MONITORING**

- Determined by specific diagnosis

### **PREVENTIONS AND AVOIDANCE**

- Determined by specific diagnosis

### **POSSIBLE COMPLICATIONS**

- Determined by specific diagnosis

### **EXPECTED COURSE AND PROGNOSIS**

- Determined by specific diagnosis

## **Key Points**

- “Alopecia” is the medical term for hair loss
- Hair loss is a common problem in cats
- Pattern of hair loss varies—may be localized or widespread
- Skin itself may appear normal or may be abnormal
- Ringworm (dermatophytes) may cause skin lesions in people, *Cheyletiella* mites may cause irritation