

Dr Charlie Walker BVetMed CertVD CertAVP(VD) MRCVS charliewalker@theskinvet.net tel: 07947 711200 efax: 01273 371121

www.theskinvet.net

RECURRENT EAR INFECTIONS

Ear disease ('canker', otitis externa) is a common, recurrent problem in many dogs, and some cats. Treating the secondary infections will often result in only a short to medium term resolution. Recurrence is very likely unless the primary cause is detected & treated. The ear(s) may be inflamed only, or inflamed and infected with any combination of yeast, round or rod-shaped bacteria, and/or with parasites.

The factors, causing ear canal inflammation & infection, can be divided into four categories - primary, predisposing, perpetuating & secondary – listed below. Examples of the most common causes are given:

Primary causes

These factors directly induce ear inflammation (otitis externa):

• Hypersensitivity Atopic dermatitis (the most common cause)

Adverse food reactions (food allergy or dietary intolerance)

Contact hypersensitivity

Parasites Ear Mites Otodectes cynotis

'Fox' mange Sarcoptes scabiei

Demodex canis mites

Ticks & fleas Echidnophaga gallinacea, Spilopsylla cuniculi

Foreign bodies Grass seeds/awns

Loose hair, sand, dirt, medication concretions (grooming

powders)

Keratoseborrhoeic Hypothyroidism

Primary Idiopathic Seborrhoea

Vitamin A - responsive Dermatosis

Local Glandular disorders

Ceruminous gland hyperplasia

Sebaceous gland hyper- or hypoplasia

Altered secretion rate Altered type of secretion

Autoimmune diseases

Granulomatous Sebaceous Adenitis

Pemphigus foliaceus and erythematosus

Lupus erythematosus Cold agglutinin disease

Epidermolysis bullosa acquisita

Vasculitides

Microorganisms 'Ringworm' (Dermatophytosis) Microsporum canis etc

Viral Distemper

Inflammatory
Eosinophilic dermatitis-granuloma

Frostbite & solar (actinic) dermatitis - white cats & dogs

Juvenile cellulitis

Proliferative & necrotising otitis externa (feline)

Nasopharyngeal polyps Relapsing polychondritis Sterile eosinophilic folliculitis



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Predisposing factors

These factors increase the risk of development of ear disease but do not directly induce it:

© Conformation Long, dangling ear flaps (pendulous pinnae)

Hairy ear canals (hirsutism)

Stenotic canals

Excessive moisture 'Swimmer's ear'

High humidity environment

Excessive cerumen (wax)

Treatment effects Hair plucking (Groomers)

Cotton bud trauma

Obstructive disease Benign cutaneous neoplasia

Polyps

Systemic disease Immune suppression or viral disease

Generalised neoplastic disease

Debilitation and negative catabolic states

Please note the first factor, conformation of the ear, does not directly cause ear disease. This is a common misconception. If this was true then all dogs with large, floppy, and/or hairy ears would have recurrent ear infections.

Perpetuating causes

These factors prevent complete resolution of the disease, sometimes permanently.

 Progressive pathological changes (from chronic inflammation and recurrent infections)

Ceruminous Gland hyperplasia

Disruption of elevator clearance mechanism

Fibrosis - scarring Hidradenitis Hyperkeratosis

Hyperplasia - increased epithelial folds

Oedema – swelling

Ossification of ear cartilage

Otitis media (middle ear disease)

Simple purulent

Caseated or keratinous

Choleastoma Proliferative

Destructive osteomyelitis

Secondary infections

Microbial infections, which are never primary, often cause the more acute clinical signs and this further progression leads to another visit to the Vet.

Yeast
Malassezia pachydermatis, Candida sp.

© Bacteria Staphylococcus pseudintermedius, (Streptococcus sp.)
Pseudomonas sp. (Proteus sp., Escerichia coli etc.)

Therefore the more infections that a patient undergoes the more difficult it may be to reverse the progression of the ear disease.

Eventually permanent damage will ensue and surgical treatment will be the only option through re-referral to a Soft Tissue Surgeon for salvage surgery (total ear canal ablation with bulla osteotomy).