



Provilan[®] **NORDIC**

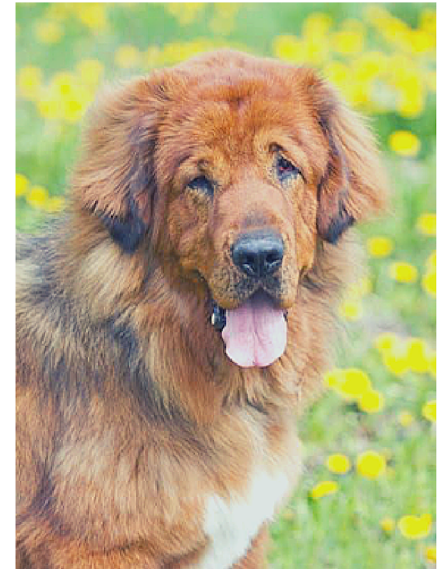
**EAR CARE CASE STUDY
PROBIOTIC CARE FOR PETS**



PET PROBIOTIC EAR SPRAY RESOLVES DOG'S RECURRENT & ANTIBIOTIC-RESISTANT EAR INFECTIONS

The treatment of multi-resistant ear infections presents veterinary surgeons with a challenging problem - bacteria that commonly infect the ears of dogs are becoming more and more resistant to the available antibiotics. Ear infections cause pain and discomfort for dogs and can affect hearing and balance in the long term. The use of probiotic ear products presents a new approach to this problem. It uses commensal (friendly) bacteria to eliminate pathogenic bacteria by competitively inhibiting them without the need for traditional antibiotic treatment.

RICHARD DOYLE, DIRECTOR (WYLIE VET)



The Problem

Ben, an eight-year old Newfoundland presented with inflamed ears and clinical evidence of an infection in his left ear. This infection was effectively treated with an antibiotic (Florfenicol) ear preparation. Three weeks later he developed symptoms of another infection in his left ear.

Three different pathogenic bacteria were isolated from this ear: Escherichia coli, Staph. Pseudintermedius and Beta Haemolytic Streptococcus. An antibiogram showed that each of these bacteria were resistant to several antibiotics commonly used for ear infections.

Ben was admitted for sedation and full assessment of his ears. His ear canals were swollen, and both contained a thick, yellow, smelly discharge. Ben's ears were thoroughly cleaned, and he was treated with a combination of antimicrobial products (Marbofloxacin and an antimicrobial peptide, which helps to kill bacteria by damaging their cell walls). He was also treated with anti-inflammatory medication to reduce the pain and discomfort of his severe ear infection.

Ten days later his ears looked much better although his left ear was still a little inflamed. A further swab revealed a profuse growth of Staph. pseudintermedius again and a moderate growth of Alpha Haemolytic Streptococcus. Both bacteria were resistant to Marbofloxacin.



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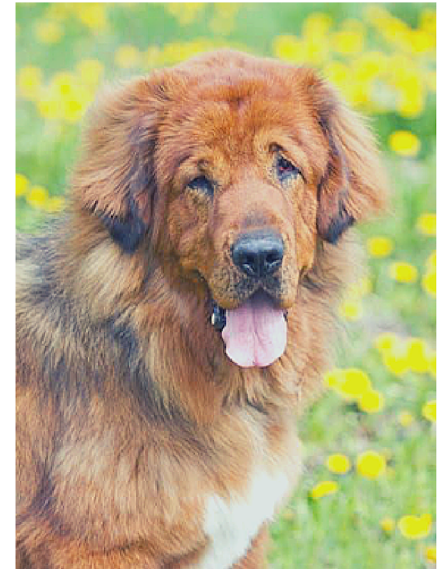
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The Solution

The vet (Richard Doyle of Wylie Vets), decided at this stage to trial LUCAA+ Pet Probiotic Ear Care preparation. Both ears were sprayed twice daily, and he was reassessed eight days later. Ben's right ear appeared normal. His left ear was improved but still slightly waxy and inflamed. Further swabs were taken and no pathogenic bacteria were cultured.

Probiotics Helped When Ben's
Antibiotics Stopped Working

The Outcome

Ben continued to have his ears treated with the LUCAA+ Probiotic Ear Care twice weekly for one month before stopping the treatment. To date (four months) he has not suffered any further ear infections.

EXPECT
MORE

Our LUCAA+
Probiotic Ear Care
is also suitable for
puppies, kitties
and horses



Spray
100ml



Credit: This case study is performed by Ingenious Probiotics in collaboration with Vet Richard Doyle (Wylie Vets, Essex.)