



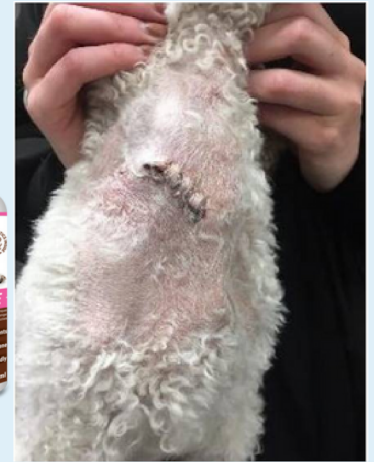
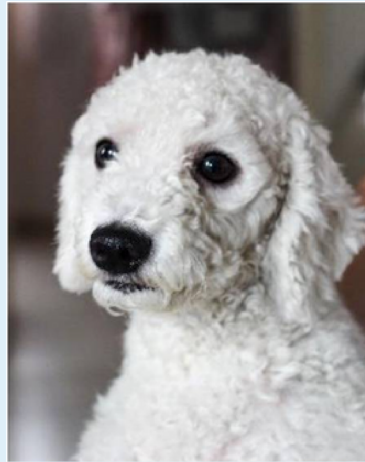
# Provilan<sup>®</sup> NORDIC

## PROBIOTIC WOUND CARE SPRAY CASE STUDY



### PROBIOTIC WOUND SPRAY HEALS DOG BITE

- 6cm puncture wound vein heals well with no complications.
- Antibiotic treatment is reduced to one single injection only, with no need for the usual additional 7 to 10 days course at home.
- Vet says 'Healing is excellent'.
- No further treatment is required.



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

Ted is a seven-year old Toy Poodle

The wound was already healing well after only 3 days

### PROBIOTIC WOUND SPRAY IMPROVES DOG BITE HEALING WHILST REDUCING ANTIBIOTIC REQUIREMENTS



#### The Problem

Ted the Toy Poodle sustained a deep dog bite wound on the right side of his neck. The wound was 6cm long with extensive bruising to the underlying tissues. The jugular vein was exposed but not damaged.

#### The Solution

The affected area was clipped and cleaned with Chlorhexidine disinfectant, then rinsed with saline. The open wound was sprayed with Provilan LUCAA+ Pet Wound Care Spray, then surgically closed. Ted was given a single antibiotic injection (amoxicillin/clavulanic acid) and discharged home with instructions to spray the wound twice daily.

#### The Outcome

Ted had a follow-up check 3 days later. The wound was clean and healing well. Ted seemed comfortable with the wound and did not interfere with it. Healing was excellent and the surgical staples were removed 10 days later.



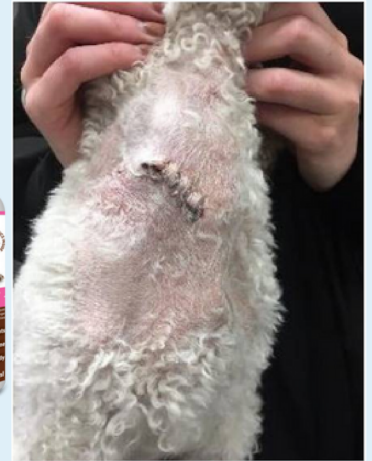
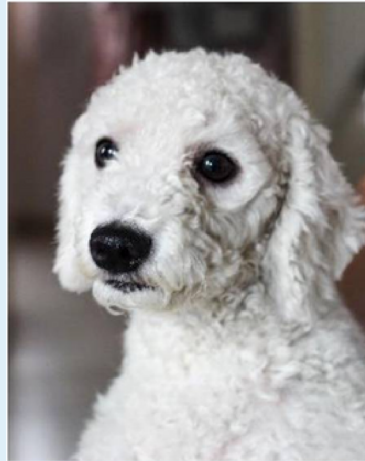
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### Comment from Ted's Vet - Richard Doyle, Wylie Vets

"Bite wounds are regarded with great caution by vets as they are always assumed to be infected with bacteria from the mouth of the attacker and tissue bruising/damage associated with such injuries can result in severe, deep-seated tissue infections, which can develop into septicemia (life-threatening infection of the blood). The normal treatment approach is to excise as much damaged tissue as possible and then cover with broad-spectrum antibiotics to combat deep-seated infection and sepsis.

Whilst antibiotics are effective against most pathogens, they also disrupt the normal bacterial flora of the intestinal tract and skin and so can lead to gastrointestinal upsets and dermatitis, can cause adverse allergic reactions, environmental contamination and over-use can lead to the global problem of antimicrobial resistance (AMR).

This approach involves creating an active biofilm of commensal (friendly) bacteria at the site of infection and eliminating the pathogenic bacteria by a process of competitive inhibition. This treatment is not damaging to the patient or the environment and does not lead to AMR."



**OUR PROBIOTIC CARE  
PRODUCTS ARE FIT  
FOR ALL PETS**

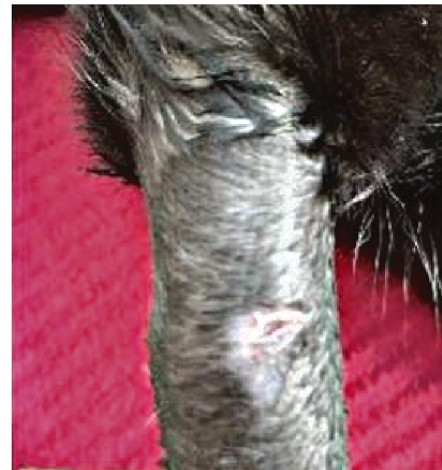
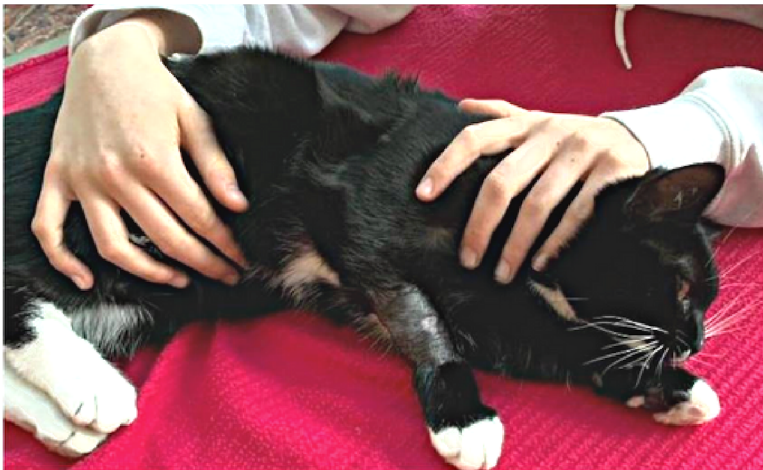


# Provilan<sup>®</sup> NORDIC

## PROBIOTIC WOUND CARE SPRAY CASE STUDY



### PROBIOTIC WOUND SPRAY HEALS CONTAMINATED CAT BITE WITH PROBIOTICS AND WITHOUT ANTIBIOTICS



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

#### Veterinary surgeon trials wound pray on his own pet cat

Vet's  
Comment

"Mila is fully recovered and healthy. The wounds healed uneventfully. This case demonstrates a novel and effective way of managing contaminated wounds".

RICHARD DOYLE, DIRECTOR  
(WYLIE VET)

- Six painful, inflamed puncture wounds heal in 7 days
- Temperature resolves in 24 hours
- No further treatment required
- No complications have since occurred



#### The Solution

The affected areas were:

- Clipped and cleaned with Chlorhexidine antiseptic (contact time around 5 min)
- Rinsed fully with tap water and dried
- Sprayed with Provilan LUCAA+ Wound Care Spray twice daily for 7 days

#### The Problem

A vet's 8-month old cat, Mila, was involved in a cat fight and sustained bite wounds at the base of her tail and right forelimb. She had a temperature of 40.1°C and was in moderate to severe pain. She had four deep puncture wounds in the base of her tail, and two deep puncture wounds on her forearm, all penetrating the muscles and tendons. The base of her tail and forearm were inflamed.

Mila was also treated with opioids for pain control in the early stages. No attempt was made to reduce the local inflammatory response with anti-inflammatory treatment.

Mila's temperature returned to normal after 24 hours. The swelling persisted for 4 days and resolved by 7 days post treatment. No further treatment was necessary and no complications have occurred since.