

PROVILAN PROBIOTIC DERMO CARE CASE STUDY - DOG BITE



PROBIOTIC WOUND SPRAY IMPROVES DOG BITE HEALING WHILST REDUCING ANTIBIOTIC REQUIREMENTS



Ted is a seven-year old Toy Poodle

How Probiotics Support Wound Healing

- ✓ Reduces pathogenic bacteria through competitive inhibition.
- ✓ Antibiotic treatment reduced to one injection only. No further treatment required.
- ✓ Restores microbial balance and supports the skin microbiome.
- ✓ Does not create antimicrobial resistance (AMR)

Provilan Dermo Care Spray



Vet says
'Healing is excellent'.

Introduction: The Challenges of Treating Dog Bite Wounds

Ted, a 7-year-old Toy Poodle, presented with a 6cm-long dog bite wound on the right side of his neck. The injury involved significant tissue bruising, and the jugular vein was exposed but undamaged. Bite wounds are inherently high-risk due to bacterial contamination from the attacker's mouth, with potential complications including deep tissue infections and sepsis. Conventional treatment often involves extensive antibiotic use to mitigate these risks. However, antibiotics can disrupt the patient's normal bacterial flora, causing gastrointestinal upset, dermatitis, and contributing to antimicrobial resistance (AMR). To address these concerns, Provilan Dermo Care Spray was used as part of a wound management protocol.

Treatment Protocol: Probiotic Wound Spray for Infection Control

Initial Cleaning and Surgery: The wound area was clipped and cleaned with Chlorhexidine disinfectant, then rinsed with saline. **Provilan Probiotic Dermo Care Spray** was applied to the open wound before surgical closure.

Post-Surgical Care: Ted received a single antibiotic injection (amoxicillin/clavulanic acid). The wound was sprayed twice daily with Dermo Care Spray to support healing and prevent infection.

Results: Faster Healing with Fewer Antibiotics

Day 3 Check-Up: The wound was clean and healing well. Ted was comfortable and did not interfere with the wound.

Day 10: The surgical staples were removed, with excellent healing and no signs of infection.

Antibiotic Use: Treatment was limited to a single injection, avoiding the need for a typical 7–10 day oral antibiotic course. Ted's rapid recovery highlights the effectiveness of probiotic support in wound care, reducing the need for extended antibiotic treatment and associated risks.

Comment from the Veterinary Team

"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 septicaemia (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." **Dr. Richard Doyle, Wylie Vets**

Note: Provilan Vet probiotic sprays are not medicines or medical devices.



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