# WE CAN DO IT THE HARD WAY...

EASY WAY!

The latest research reveals that molecular iodine as a pet water additive is more effective for periodontal health than veterinarian-supervised daily brushing.

Periodontal disease is the most commonly-diagnosed condition in small animal veterinary medicine. In the vast majority of cases, treatment often isn't started until very late in the disease process, because there are few outward clinical signs in the early stages. Consequently, periodontal disease is also the most undertreated animal health problem.

Gum disease affects a lot more than just the mouth. Unchecked, it has numerous potentially dangerous health consequences for dogs and cats. Oral infection, tooth loss, and increased incidence of oral cancer are localized manifestations. More serious problems linked to periodontal disease include kidney, liver, lung and cardiac diseases, osteoporosis, adverse pregnancy effects, and diabetes.' In fact, the link between periodontal disease and heart disease is so strong that periodontal disease is now considered a direct cause of heart disease. The onset of periodontal disease starts with dental microbial biofilm (dental plaque) formation and the associated immune-inflammatory response of the animal to that plaque buildup.

### WHAT CAN WE DO ABOUT IT?

You can help reduce dental plaque by vigorously brushing your dog or cat's teeth daily.4 But uncooperative pets, and the challenges of daily brushing, often result in unsatisfactory outcomes. Less frequent brushing results in even poorer outcomes.

Wouldn't it be simpler to reduce plaque and control bad breath by using a daily pet water additive? Adding a few milliliters of treatment solution to a dog or cat's drinking water each day is almost effortless, and easy to maintain compared to struggling daily with an unwilling animal, Current research shows that it can even be more effective than brushing.

## ADDING MOLECULAR IODINE

While several products have been promoted as water additives for dental health, there has been scant evidence of their efficacy. However, a first-of-its-kind molecular iodine water additive was recently studied for its effectiveness in reducing dental plaque in an evidence-based approach (see sidebar). The study showed that the molecular iodine water additive reduced more plaque than veterinarian-supervised daily brushing.



# THE EVIDENCE - MOLECULAR IODINE **OUT-PERFORMED DAILY BRUSHING**

A molecular lodine pet water additive was evaluated in two double-blind, placebo-controlled and diet-controlled clinical trials, following Veterinary Oral Health Council (VOHC) guidelines. Each 28-day trial involved 25 dogs whose plaque was measured by a trained veterinarian. Treatment was well tolerated by the dogs and resulted in an average plague reduction of 44%. The molecular iodine product used in the studies earned the VOHC Seal of Acceptance. Other study observations included the elimination of bad breath in treated dogs, and no changes in thyroid hormones after 28 days.

In contrast, a plaque reduction study involving toothbrushing, published in the Journal of Veterinary Dentistry, showed that brushing was significantly less. effective. These study results are compared at right.

The greatest plaque reduction was obtained by the use of molecular iodine. With a 44% reduction of plague within 28 days, plaque reduction through the use of molecular iodine was significantly greater than the plaque reduction obtained even through daily, veterinarian-supervised brushing

### % OF PLAQUE REDUCTION OVER 28 DAYS

9.9% VETERINARIAN-SUPERVISED BRUSHING - WEEKLY

24.8% VETERINARIAN-SUPERVISED BRUSHING - EVERY OTHER DAY

VETERINARIAN-SUPERVISED BRUSHING - DAILY

MOLECULAR IODINE WATER ADDITIVE

Molecular iodine (I2) is the only species of iodine that kills harmful microorganisms. It is non-staining, whereas other types of iodine stain teeth and can be toxic to dogs and cats.



The molecular iodine referenced in the studies is incorporated into ioVet24 Oral, a pet water additive (www.iovetproducts.com). The same advanced technology is used in human oral care products and is recommended by thousands of periodontists and dentists throughout the U.S. (unww.iotechinternational.com).

Despite our best efforts, periodontal disease has reached epidemic proportions in dogs and cats. Fortunately, molecular iodine is an effective, easy-to-use option that can play a major role in helping reduce dental plaque - and subsequent issues

with periodontal disease



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