

Real Results

For the complete pet

 **Periodontal disease** is the most prevalent of all diseases in dogs and cats and a primary cause of health-related ailments (McFadden and Marretta 2013), **with up to 80% of pets experiencing gum disease by the age of 3 years**. As such, treating the disease is costly, running in the billions of dollars (US) annually on a global scale.

Periodontal disease is typically a slowly progressing disease of the gums, especially along the gingival margins of the teeth, both facially and lingually. Its beginnings are humble, in the biofilm that forms over the gums and teeth by bacteria normally found within the mouth (Davis et al. 2014). Within a few hours the biofilm transforms into plaque which, over a period of days and weeks can completely cover the tooth in a thick, relatively soft plaque. Along the margins of the gum persistent plaque harbors the aggressive bacteria that cause gum inflammation (gingivitis) and directly leads to the **irreversible stages of periodontal disease**.

The main genera of bacteria that we are interested in are: **Porphyromonas, Fusobacterium, and Capnocytophaga**. The species are primarily of gram negative staining. The optimal pH for these bacteria is in the neutral range.

One example is the Porphyromonas known for causing periodontal disease, a serious gum infection that leads to the loosening and eventual, detachment of teeth in both humans and animals.

P. Gulae was found in dogs. This bacterium thrives on periodontal tissues, eating up the gums and reducing well-rooted teeth to shaky cavities.



Before



OCP Control Dog Before Prophylaxis Treatment - under UV light examination

After



OCP Control Dog After Prophylaxis Treatment & 28 days using Oral Care Product - under UV light examination

Ingredients:

Active

Sodium bicarbonate – raise oral pH, destroys harmful bacteria, freshen breath
 Plant-based enzymes – destroy food particles and harmful bacteria
 Dried melon pulp – high in antioxidants, support tissue immune status and health
 Ascorbic acid (Vitamin C) – natural antioxidant – support tissue health and immune status
 Matcha green tea – supports tissue health and destroys harmful bacteria

Inactive

Disaccharide carbohydrate - flavour
 Silicon Dioxide – moisture absorbent

All ingredients have regulatory approvals.

Approved in Canada as a Veterinary Health Product NN.W500
 ALL Ingredients are GRAS approved for use in animal supplements in the EU and USA

There are several drinkable oral care products on the market, many of which have zinc gluconate as an antimicrobial and other chemicals (**i.e. chlorhexidine**) that serve to enhance palatability and freshen breath. Use of some of these products raises their own health concerns. Excess dietary zinc, as may occur from drinking adequate amounts of **zinc gluconate** containing products, may lead to dietary zinc overload (associated with neutropenia, decreased white cells, sideroblastic anemia, digestive disorders) when used over a prolonged period of time (Olin 1988; Tongesayi et al. 2013; Medici and Grigsby 2013).

Additionally, very few products are supported with published research, raising concerns about veracity of claims and product safety.

Clinical Study

The proprietary OCP was clinically tested in 2 study groups in Canada and the UK was formulated using naturally occurring and beneficial compounds that have been shown to:

- **Inhibit the proliferation of orally-occurring bacteria**
(Sakanaka et al. 1996; Taylor et al 2005; Kaur et al. 2014)
- **Have antioxidant and anti-inflammatory potential**
(Hirasawa et al. 2002; Narotzki et al. 2012)
- **Have breath freshening and tooth whitening properties**
(Kaneko et al. 1993; Blake-Haskins et al. 1997)

It was hypothesized that dogs drinking water into which this OCP was suspended would exhibit a reduced rate of plaque formation, reduced plaque thickness, reduced calculus and an absence of or minimal gingivitis.

On day 0 all teeth were cleaned by a veterinarian and gingivitis was assessed. On return visits on days 14, 21 and 28 plaque index, plaque thickness, gingivitis, freshness of breath and general health were assessed. On average over the 28 days of study, dogs on the OCP had significant reduction in plaque index and plaque thickness.

Up to 60% on average and 37% reduction in plaque formation occurred to canines and first molars during the first two weeks, and there **was no gingivitis or calculus** at the end of the 28 day study.

This data was produced by consuming the OCP as a normal drinking water additive, and in the absence of other modes of oral care during this process.

Research Study:

Reduced Dental Plaque Formation in Dogs Drinking a Solution Containing Natural Antimicrobial Herbal Enzymes and Organic Matcha Green Tea

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OVVET Petcare Dental Care Plan

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Advanced Oral Care Program



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