

# Clinical experiences with Growth-Factor therapy in our Hungarian veterinary practice

The BiogenicPet Vitality formula is a dietary supplement that contains **natural growth factors** (standardized oligopeptides), amino-acids, small amounts of iron, copper, selenium, and zinc. Each natural growth factor is comprised of peptides which are transported through the bloodstream to their specific receptor sites to achieve their bio-stimulant effect.

<b>NGF</b>	(Nerve Growth Factors)
<b>FGF</b>	(Fibroblast Growth Factors)
<b>EGF</b>	(Epidermal Growth Factors)
<b>IGF-1, IGF-2</b>	(Insulin-like Growth Factors 1,2)
<b>CTGF</b>	(Connective Tissue Growth Factors)

1. **NGF (Nerve Growth Factors)** Promotes neural cell survival which alleviates anxiety and depression. This in turn keeps the animal alert and enhances the ability to concentrate.
2. **FGF (Fibroblast Growth Factors)** Essential to the development of the skeletal and nervous systems.
3. **EGF (Epidermal Growth Factors)** Promotes skin tissue and hair growth and development, speeds up the healing of wounds. The dog's and cat's fur will become shinier, EGF reduce shedding.
4. **IGF-1, IGF-2 (Insulin-like Growth Factors)** They play an important role in growth and development, enhances liver, kidney and brain functions, and have a beneficial effect on the adrenocortical hormone production.
5. **CTGF (Connective Tissue Growth Factors)** Promotes collagen production, which improves ligament functions and alleviates joint pains.

Scientific research has clearly indicated[1] that the natural agents of the BiogenicPet Vitality formula help production of cortisol and insulin in the physiologically optimal amounts, which naturally alleviates several common dog diseases.

This document was written by Dr. Robert Gipper and has been professionally translated from Hungarian to English.

Among the above mentioned beneficial effects of this formula, personally I was most interested in cases where the disease is a result of hormone imbalance. As you know, the alternatives are scarce or very expensive in the treatment of these.

### **Diabetes mellitus**

*Patient No. 1:* 4 year old female Poodle. In this fortunate situation, diabetes was diagnosed early, no major complications were present, and the blood sugar level was not excessively high either (12 mmol/l). We started giving her the Eukanuba weight diabetic control feed, and the natural growth factors supplement (2x50 mg). The blood sugar level was normalized within a few days and remained unchanged for the next four weeks.

*Patient No. 2:* 6 year old male, mixed breed, who has been suffering from diabetes for a longer period of time, and has been given insulin twice a day. After two weeks of taking the natural growth factors supplement (2x50 mg), the insulin could be reduced to half, after four weeks to one quarter of the original amount. It has been six weeks of treatment now, and the dog is not being given insulin at all.

*Patient No. 3:* 10 year old female Rottweiler, who has been receiving insulin-therapy for a while, and there was no improvement in her condition even after spaying. She has been taking the natural growth factors formula (2x150 mg) for the past six weeks, and we only need to give half of the original daily dose of insulin now. We achieved this result around the 4<sup>th</sup> week of treatment, but our attempts to reduce this amount any further have been in vain so far: if we gave a dose smaller than half of the original, the blood sugar level invariably bounced back up too high.

### **Diabetes insipidus**

*Patient No. 1:* 8 year old male Fox Terrier, who has been suffering from this type of diabetes for a longer period of time, and has been given Minirin (desmopressin). He has been taking the natural growth factors formula (2x50 mg) for four weeks, and at this point he only needs one quarter of the original Minirin dose to show no symptoms, that is, he does not drink and urinate excessively.

*Patient No. 2:* 9 year old Dachshund mix. This is a recent case, he has been taking the natural growth factors formula (2x50 mg) since the onset, for 6 weeks. He drinks significantly less water and he does not have urinary incontinence problems any more, but he is not asymptomatic yet.

### **Cushing's disease**

*Patient No. 1:* 10 year old female Dachshund. In her case, the disease has been diagnosed some time ago, she has been taking Nizoral pills (Cetoconazole) to reduce the symptoms, and has been fed Eukanuba Light feed to lose the excess weight. At this point, she has been taking natural growth factors formula (2x50 mg) for six weeks, she is not on Nizoral any more, but we are continuing with the lower calorie diet. Right now her water intake and urination are normal, she has lost a considerable amount of weight, and we observed a significant improvement in her fur and skin condition.

*Patient No. 2:* 11 year old male, mixed breed. He is a recent case, he has been taking Vetoryl pills and the natural growth factors formula (2x50 mg) since the onset of the disease, that is for four weeks. By the end of the fourth week, he only needs a quarter of the Vetoryl amount to make it through the night without having to be taken outside to urinate. The owner cannot afford to put him on a special feed, so all we could do to change his diet was that they limit the amount of food intake at home, and improve the quality of that food as much as they can.

*Patient No. 3:* 7 year old female, West High Terrier. She has been suffering from constant eczema issues, and was undergoing Prednisolone therapy coming from a different clinic. She has just recently come to us for treatment. The Cushing's disease was a result of the continuous doses of glucocorticoid, and she was showing the classical symptoms. As the first step, we ran allergy tests which revealed nutritional problems. We changed her diet to the Eukanuba Dermatitis feed, and ever since the onset of the disease three weeks ago, she has been taking the natural growth factors formula (2x50 mg). We stopped giving her Prednisolone altogether, but in the beginning of our treatment program we used skin

soothing shampoo and antihistamine to reduce itching. As far as water-intake and urination, her condition has improved, but she is not asymptomatic yet, her weight remained unchanged. There has been a visible improvement, however, in her fur and skin condition already.

### **Hypothyroidism**

*Patient No. 1:* 10 year old female Boxer. When she came to my clinic, she was considerably underweight, and showed symptoms of alopecia, hyperpigmentation, and shedding. The results of the blood test suggested hypothyroidism. We also detected mammary tumor and cystic transformation of the ovaries. We performed the necessary surgeries (ovariectomy, removal of tumoral mammary tissue), changed her diet to Eukanuba Senior, and started her on the natural growth factors formula (2x150 mg). After four weeks of treatment, her condition was significantly better, the shedding ceased, and there was a substantial improvement in her overall well-being.

**It is important to note that in the above mentioned cases of hormonal imbalance, we doubled the dose described in the “directions for use”. Based on clinical experiences with this formula in the US, they recommend a higher dose in similar cases.**

### **Idiopathic colitis**

*Patient No. 1:* 7 year old Cane Corso. He came in with constant diarrhea and was in a very bad shape. Based on various laboratory examinations, idiopathic colitis was diagnosed.

At this point, his treatment regimen is determined as follows: Salazopyrin pills, Eukanuba Intestinal feed, and natural growth factors formula (2x150 mg, twice the normal dose). After four weeks of treatment, the consistency of the feces is better, and although the complete resolution to solid stool has not occurred yet, his condition visibly improved, his fur is becoming shinier, and he is happier and more playful than four weeks ago.

### **Other cases**

In 10 cases, we gave the formula to dogs who were recovering from surgery, or who were in weak condition after an illness, and older dogs in poor physical condition. After 24-48 hours, there was a noticeable improvement in their mood and appetite. Their condition generally improved within two weeks, and the older dogs regained their youthful energy.

In 10 cases we treated dogs suffering from skin problems. While addressing the underlying causes, we also put the dogs on the natural growth factors formula.

In two weeks, after successful treatment of the underlying causes, generally their fur and skin condition also considerably improved.

In 10 cases we gave the formula to dogs with locomotor disorder. For various reasons, surgery was not an option for them, only symptomatic treatment was possible (i.e.: hip and elbow dysplasia, other arthritic conditions, etc.). Beyond pain relief, we gave them the natural growth factors formula instead of mussel extract. As a general conclusion, we can say that this treatment reduced the locomotor symptoms substantially better than previously used regimens. In four cases, we could stop giving pain relief pills after two weeks, they only take the natural growth factors formula now.

In two cases we gave the formula to dogs with persistent, recurring panosteitis. In addition to and following the usual treatment (antibiotics and non-steroids), continuous administration of the formula successfully prevented recurrence of the disease.

To summarize the above, I am confident that the natural growth factors formula considerably improves the medical conditions stated in the indications. In the treatment of hormonal imbalance, this formula fills a prominent gap: in a lot of cases, we lack alternatives.

I am happy to recommend this product, because I believe it will be a useful formula in the everyday practice of numerous colleagues, not only as a supplement, but also in helping to address the underlying causes. The planned consumer price is very reasonable even for our not-so-wealthy clients, and that is something to consider in today's world.

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#### **REFERENCES**

- 1. Gippert R.,** Clinical experiences with natural growth factors in our Hungarian practice, Small Animal Practice Periodical 2008, 2nd issue, page 78.