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The Effects of BiovaPlex® Hydrolyzed Egg Membrane Powder (EMP) on Joint Mobility in Dogs

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Executive Summary

This white paper presents findings from a clinical trial evaluating the effects of BiovaPlex® hydrolyzed egg membrane powder (EMP) on joint mobility in adult dogs. The study focused on two groups: dogs with no prior supplementation (Naïve) and dogs previously on a different supplement who switched to BiovaPlex (Switch). Results demonstrated that BiovaPlex significantly improved joint mobility within one week, with continued improvement over the 28-day trial period.

Background

Canine osteoarthritis and degenerative joint disease are common in aging dogs, often leading to reduced mobility and quality of life. BiovaPlex egg membrane powder (EMP), derived from chicken eggs, contains a rich blend of glycosaminoglycans, collagen, elastin, and growth factors known to support joint health. This study aimed to evaluate the clinical impact of BiovaPlex on dogs exhibiting signs of joint discomfort.

Study Objective

To determine the effect of BiovaPlex (EMP) supplementation on joint mobility in adult dogs.

Participants:

Dogs exhibiting decreased joint mobility were recruited from clients of the Animal Medical Center in Uniontown, PA.

PRODUCT SPECIFICATIONS

CAS: 227025-35-6

Product Source: Egg Membrane

Molecular weight: ≥ 3000 kDa

Form: Sprayed dried powder

INGREDIENT PROFILE

Total Protein $\geq 85\%$

Collagen $\geq 10\%$

Elastin $\geq 10\%$

Total GAGs $\geq 10\%$



Assessment:

Joint Mobility Scores (JMS) were assigned weekly by clients, based on observed changes in their dogs' mobility compared to baseline (Day 0). Scores ranged from 0 (no improvement) to 10 (complete improvement).

Groups Included in This Report:

- Group 1 – Naïve (n=24): No prior joint supplementation; received BiovaPlex only.
- Group 2 – Switch (n=6): Previously on KnuBoost; switched to BiovaPlex only.

EMP Dosage:

Each dog received a daily gel cap containing 5 mg of BiovaPlex EMP per pound of body weight for 28 days.

Results

Group 1 – Naïve (n = 24)

Week	Average JMS	Standard Deviation	Interpretation
Week 0	0.00	0.00	Baseline
Week 1	3.08	1.77	Noticeable improvement in mobility within 7 days
Week 2	4.38	2.14	Continued improvement, surpassing clinical threshold (JMS \geq 2)
Week 3	5.67	2.04	Significant gains in mobility
Week 4	6.13	1.94	Sustained and strong improvement
Average	4.81	1.84	Strong overall response to EMP

Table 1. Joint Mobility Score for Dogs in Group 1. Dogs in this group had no prior joint supplementation and received only BiovaPlex (EMP).

Key Insight:

All dogs in this group showed progressive improvement. The average JMS exceeded the clinical threshold for improvement (JMS \geq 2) by Week 1 and continued to rise steadily.

Group 2 – Naïve (n = 24)

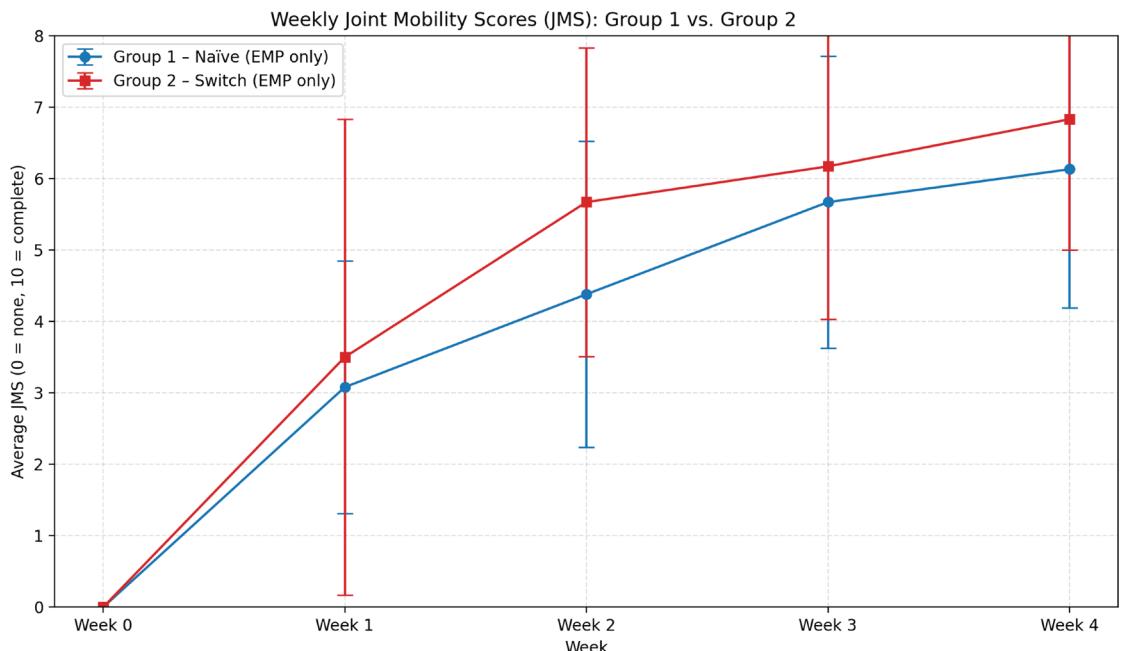
Week	Average JMS	Standard Deviation	Interpretation
Week 0	0.00	0.00	Baseline, post-switch
Week 1	3.50	3.33	Rapid response, though with high variability
Week 2	5.67	2.16	Strong improvement, more consistent
Week 3	6.17	2.14	Continued gains in mobility
Week 4	6.83	1.83	Highest average JMS among all groups
Average	5.54	2.22	Excellent overall response to EMP

Table 2. Joint Mobility Score for Dogs in Group 4. Dogs in this group were previously on KnuBoost and switched to BiovaPlex.

Key Insight:

Despite a small sample size, this group showed the highest final average JMS. The rapid and sustained improvement suggests BiovaPlex EMP may be a superior alternative to previous supplementation.

Figure 1. Weekly Average Joint Mobility Scores for Group 1 & Group 2



Client Feedback:

- 15 of 24 clients in the Naïve group and 4 of 6 in the Switch group requested to continue EMP post-trial.
- Clients reported noticeable improvements in mobility, energy, and comfort.

Conclusions:

1. BiovaPlex significantly improves joint mobility in adult dogs within 7 days.
2. Continued use leads to progressive improvement over a 4-week period.
3. BiovaPlex is effective both for dogs new to supplementation and those switching from other products.
4. Client satisfaction was high, with 66% of participants requesting BiovaPlex after the trial.



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The Amazing Actives of Egg Membrane

- **COLLAGEN** / Peptides that promote skin strength, elasticity, cohesion and firmness
- **ELASTIN** / Protein which gives tissue the elastic tension and ability to resume its shape after stretching
- **ALL 9 ESSENTIAL AMINO ACIDS** / Cannot be synthesized by the body, these crucial nutrients must be obtained through diet
- **GLYCOSAMINOGLYCANs (GAGs)** / Including glucosamine, chondroitin, and hyaluronic acid: vital polysaccharides which serve as structural components of connective tissue, interstitial fluids, and cartilage matrix
- **TRANSFORMING GROWTH FACTOR PROTEINS** / Including Ovocalixin, Ovocleidin, and Ovotransferrin which play a crucial role in tissue repair

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