



**Medicine Bag Project
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Equine Ligament/Tendon Program

Introduction:

Medicine Bag Project (MBP) was established to preserve the ancient Khotani teachings of natural healing. We work with humans, horses, all breeds of livestock and dogs. We have worked with vets and doctors especially on the alternative side.

Through the use of old formulas that have been passed down and new formulations we have numerous formulas for specific and general uses. The majority of our work and formulations have been in the human and equine fields. In the equine world our work is predominately with performance horses in the disciplines of dressage, hunter/jumper, and rodeo, racing and reining.

Most (75-80%) of our work within the equine industry is with severe and traumatic injuries and diseases. Usually the horse has been treated for some time and the therapy has been unsuccessful. Prevention (20-25% of our calls) is the key. However, the high percentage of our calls being traumatic has provided us an arena to develop formulas that have a very high success rate.



Industry Overview:

Ligament and tendon (here in after referred to as binder/s) issues have a major impact on the equine industry. Estimates on the percentage of incidences are as high as 75-80%. The highest incidences are present within operations where horses are confined (stalls, small paddocks etc.).

The protocols for recovery of severe cases usually involve rest (often complete stall rest) for 6 mo. – 1 year, a regime of wraps and in many cases surgery. Time seems to be the key. However, the percentage of successful recovery averages somewhere between 25-30%. Depending on the severity of the injury, complete restoration is rarely a prognosis.

Horses showing very minor to minor binder issues are usually given supplements to help alleviate the pain and reduce swelling. If the problems persist or worsen the next step in treatment is the administration of synthetic painkillers.

For the majority of horses with binder problems, their life is one of suffering. To date, the industry experts have yet to develop a program that is capable of restoring these horses to as close to complete health as possible. The solution has been retirement or limited performance time.

Millions of dollars are spent each year on treatment and supplements to help horses with binder issues. The majority of horses with binder issues are often permanently retired or put into semi retirement status or at worse, destroyed. The capitol investment lost can be substantial, not to mention the quality of life for the horse.

People want formulas that work. Successful recovery programs have proprietary formulas that are rarely made available to the general public. The public is always directed toward formulas that are mass produced. The key is to bridge the gap, making unique proprietary formulas available to everyone.

MBP has a reputation of honesty, integrity and producing only the highest quality supplements, training, therapy and advice *That Works*.



Product Development:

In 2004 Medicine Bag Project (MBP) was approached by a team of chemists, researchers and nutritionists. They wanted to develop a ligament/tendon and secondary arthritis formula for performance horses. We were asked to help develop and test numerous formulations. Initially MBP was tasked with formulation and sourcing potential test animals.

The early formulas consisted of 5 – 9 herbs and a Type IV collagen. The philosophy behind the herbs was to target the key organs responsible for tensile strength and integrity of the binders and to increase the efficacy of the collagen. We started with Type IV Collagen.

Shortly into the program we began sourcing Type II. In the latter part of 2004 we were sent a small batch of UCII with information regarding Dr. Trentham's work. The results of the UCII Collagen formulas verses the Type IV Collagen formulas were considerable. From this point on no other collagen was used but UCII.

The UCII was used by itself and at different dosages and in conjunction with herbs. As the testing continued we realized that UCII was a very unique product. Used by itself it was very effective in pain relief, the reduction of swelling, arthritic issues and secondarily but very importantly binder restoration.

When we combined UCII with very specific herbal combinations the results were quite amazing. We were now seeing the results (complete restoration of the binders/joint mechanism) that exceeded our target objective.

In 2006 and 2007 through several chemists and Interhealth more UCII was made available for ongoing research. The target object now included a secondary benefit of cartilage wear. Again, the results were more than satisfactory. In 2007 and 2008 we continued the work. MBP eventually referred to this product (in house) as Pro Reim 1 or simply P.R. 1. From 2008 to the present MBP has used the Pro Reim (Ligdon) consistently with great results.



Product Overview

Ingredients:

Organic Lucerne Leaf – is acclaimed as one of the best herbal treatments for arthritis, according to Washington State University. The perennial flowering plant contains a variety of nutrients to treat the cause and symptoms related to arthritis. Lucerne leaf has detoxifying properties that remove acid from the blood that leads to arthritis, according to Natural Health Remedies.

Organic Barley Grass - Barley grass contains very large amounts of vitamins, minerals, amino acids, enzymes and other beneficial nutrients. These include essential and non-essential amino acids, high amounts of antioxidants, high amounts of enzymes, including the antioxidant enzyme, superoxide dismutase (SOD), high amounts of folic acid, pantothenic acid, high amounts of carotenoids, including beta carotene – apparently more than 6 times the amount of carotene in spinach flavonoids, high amounts of vitamin B1 – apparently 30 times the amount in cows' milk; and apparently also 4 times the amount in whole wheat flour, vitamin B2, vitamin B6, high amounts of vitamin B12, high amounts of vitamin C – apparently nearly 7 times the amount in oranges; and apparently also more than 3 times the amount in spinach, high amounts of calcium – apparently more than 10 times the amount in cows' milk, copper, high amounts of iron – apparently almost 5 times the amount in spinach, magnesium, manganese, phosphorus, potassium, high

amounts of organic sodium – apparently more than 25 times the amount in celery; organic sodium helps in joint health as well as improves digestion and zinc

Fleece Flower Root – is described as a yin tonic that benefits both the kidney and liver meridians. As such, the processed tuber of Fleece Flower Root strengthens tendons, ligaments, and bones. It is a wonderful blood tonic with the ability to strengthen the membranes of red blood cells and provides strength, resilience, and stamina to the body

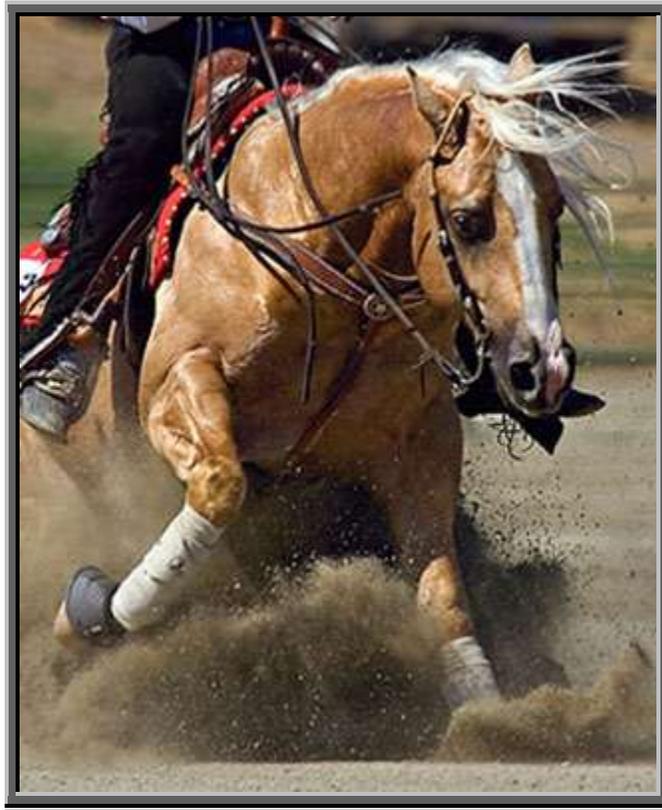
Haridra – is an excellent anti-inflammatory herb and therefore is very good treatment for arthritis, rheumatoid arthritis, injuries, trauma, and stiffness from both under activity and over activity. If used before and after any surgery it will decrease the pain and inflammation and accelerate the healing process. Though it is a pungent herb, it has great healing ability for the tendons and ligaments. It helps them to attain and hold extended movements and to avoid injuries. In the same way it minimizes the pain and inflammation related to any kind of exercise or strenuous activity. Perhaps Haridra's most important anti-inflammatory mechanism centers on its effects on the Prostaglandins (PGs), a large family of potent lipids produced by the body. PG1 and PG3 calm the body while PG2 inflames the body. Haridra is a potent inhibitor of cyclooxygenase 5-lipoxygenase and also 5-HETE production in neutrophils. Reducing these enzymes means less arachidonic acid metabolism, which means less PG2, which means less pain and inflammation.

Wild Crafted Shilajita – is used for treating painful conditions such as osteoporosis, arthritis, and other diseases of the joints, as well as for relieving pain caused by injury to the muscles. The nervous system also benefits from Shilajita as it is said to improve nervous disorders, including paralysis, and the substance is also thought to control blood pressure, replenish the body with much needed minerals and vitamins like calcium and magnesium.

UCII – Toxicology Department, Murray State University, Murray/Hopkinsville, KY 42240, USA

The present investigation evaluated arthritic pain in horses receiving daily placebo, undenatured type II collagen (UC-II) at 320, 480, or 640 mg (providing 80, 120, and 160 mg active UC-II, respectively), and glucosamine and chondroitin (5.4 and 1.8 g, respectively, bid for the first month, and thereafter once daily) for 150 days. Horses were evaluated for overall pain, pain upon limb manipulation, physical examination, and liver and kidney functions. Evaluation of overall pain was based upon a consistent observation of all subjects during a walk and a trot in the same pattern on the same surface. Pain upon limb manipulation was conducted after the walk and trot. It consisted of placing the affected joint in severe flexion for a period of 60 sec. The limb was then placed to the ground and the animal trotted off. The response to the flexion test was then noted with the first couple of strides the animal took. Flexion test was consistent with determining clinically the degree of osteoarthritis in a joint. Horses receiving placebo showed no change in arthritic condition, while those receiving 320 or 480 or 640 mg UC-II exhibited significant reduction in arthritic pain ($P < 0.05$). UC-II at 480 or 640 mg dose provided

equal effects, and therefore, 480 mg dose was considered optimal. With this dose, reduction in overall pain was from 5.7 +/- 0.42 (100%) to 0.7 +/- 0.42 (12%); and in pain upon limb manipulation from 2.35 +/- 0.37 (100%) to 0.52 +/- 0.18 (22%). Although glucosamine and chondroitin treated group showed significant ($P < 0.05$) reduction in pain compared with pretreated values, the efficacy was less compared with that observed with UC-II. In fact, UC-II at 480 or 640 mg dose was found to be more effective than glucosamine and chondroitin in arthritic horses. Clinical condition (body weight, body temperature, respiration rate, and pulse rate), and liver (bilirubin, GGT, and ALP) and kidney (BUN and creatinine) functions remained unchanged, suggesting that these supplements were well tolerated.



Testimonials

#1 Frank; Ohio - Horse had a suspensory ligament that was torn completely in two. There was some minor tendon damage and severe arthritis in 3 hoof/hock areas. Recommendation was for the horse to have 6 mos – 1 year stall rest and a 35% chance the horse would ever race again. Key note – this horse was at Northfield Park which is the hardest harness track in the country. In 45 days, an x-ray was performed and an ultrasound was done. They discovered 75% of the arthritis/inflammation was gone. The suspensory ligament had reattached itself but was still spongy. Fifteen days later, the horse went back in training.

#2 Lee; Colorado – Horse with a severely torn tendon and it had been lame for one year. This rope horse started on the Lidgon formula. The horse was being ridden in 30 days and at 60 days was back into full time roping.

#3 Terry; Oklahoma - Horse had been lame for over a year. This horse had ligament and tendon issues for several years which included stall rest. We put the horse on 60 days of Lidgon formula. At 75 days the horse was back roping part time and was roping full time at 90 days.

#4 Chuck; Oklahoma - Horse had a slight tear on the deep digital flexor tendon. The horse was still performing, but showed signs of periodic lameness. In the peak of the season, the horse was used a lot and it would need periodic rest. The horse started the formula while still performing. Half way through the regimen, the horse was doing so well they decided no more was needed. Frequent updates showed the horse maintained its recovery.