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Certified Nutraceuticals
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TendoGuard (Egg Membrane and Avian Collagen Mix)

Collagen produced the body slows as we age. The same way amino acids which are building blocks of protein required in the manufacture of collagen are minimized. Collagen is composed of amino acids responsible for the growth, repair and maintenance of man. The internal composition of Collagen has an abundance of the amino acids glycine and proline. It also contains a good quantity of hydroxyproline and hydroxylysine. These are found in all connective tissue, eyes, skin, nails, hair and bone. Type II collagen is the major component of hyaline cartilage. Collagen Type II has an abundance of hyaluronic acid and mucopolysaccharides. The Collagen supplements work naturally within the body as a bioavailable food source. Collagen is a protein processed with optimum molecular weight for easy assimilation. Collagen also increases blood circulation because it exhibits one of the elevated metabolic process created. Collagen is a major component in forming ligaments, tendons, muscles and cartilage. As one increases in age, it is difficult to manufacture sufficient amounts of collagen, this is the building block through time leading to arthritis and age related joint pain.

Collagen promotes structural recovery from injurious strains of the muscle, tendons, ligaments and cartilage. Collagen is required to mend and restore connective tissue aiding muscle strengthening and better joint mobility. Arthritic Pain through disease due to inflammatory process reduces mobility within joint area and cavities. Collagen makes mobility possible in joints without any kind of rigidity assisting the treatment and rehabilitation of an individual with arthritic pain to a pre-injurious level with or without structural breakdown. What is known about Egg Membrane is that it is a novel dietary supplement that contains naturally occurring glycosaminoglycans and proteins essential for maintaining healthy joint and connective tissues. Egg Membrane components have been shown to benefit joint and connective tissue flexibility, comfort, and range of motion with minimal known adverse side effects. Egg Membrane augments joint and connective tissue health by supplementing body constituents that have been lost through normal life and the aging process.

Eligibility:

Ages Eligible for Study: 16 Years to 78 Years
Genders Eligible for Study: Both
Accepts Healthy Volunteers: Yes

- Participants Involved in study: 15 (8 males / 7 females) - Added on 5 participants - 3 females / 2 males for 60 day trial continuation
- Patient Profile: Cartilage injuries diagnosed and not yet diagnosed, participants with arthralgia
- Patients in trial must be free from other medications during the clinical trial
- Only Subjects that were fully compliant to substance given participated in order to achieve a good response
- Past history of medications such as NSAID's and other analgesics were allowed in the trial but must have been clear of all medication for 14 days prior to the start of the trial
- No past history of Tumor Necrosis Factor Blocking Agents (ie: Humira, Enbrel, Cimzia, Remicade, etc.)

General Inclusion Criteria:

- In good general health with no history of a chronic illness
- Normal liver function tests (ALT, AST, bilirubin)
- Normal renal function tests (creatinine, BUN, urinalysis)
- Serum alpha-fetoprotein negative

General Exclusion Criteria:

- History of cancer, except for non-melanoma skin cancer
- Use of prescribed medications
- Hepatomegaly diagnosis – past/present
- Unwillingness to avoid cruciferous vegetable consumption for the duration of the study
- For women only, a positive pregnancy test
- Allergens associated with substances per normal FDA protocol
- The safety profile also of significance as there are no known side effects, excluding the obvious egg allergen and sensitivities concerns.

Non Medicinal Ingredients:

Natural Gelatin Capsule, Silicon Dioxide, Magnesium Stearate

Dosage: TendoGuard – 375 mg

Dietary supplement take two (2) capsules once daily on an empty stomach q 30 minutes before meal

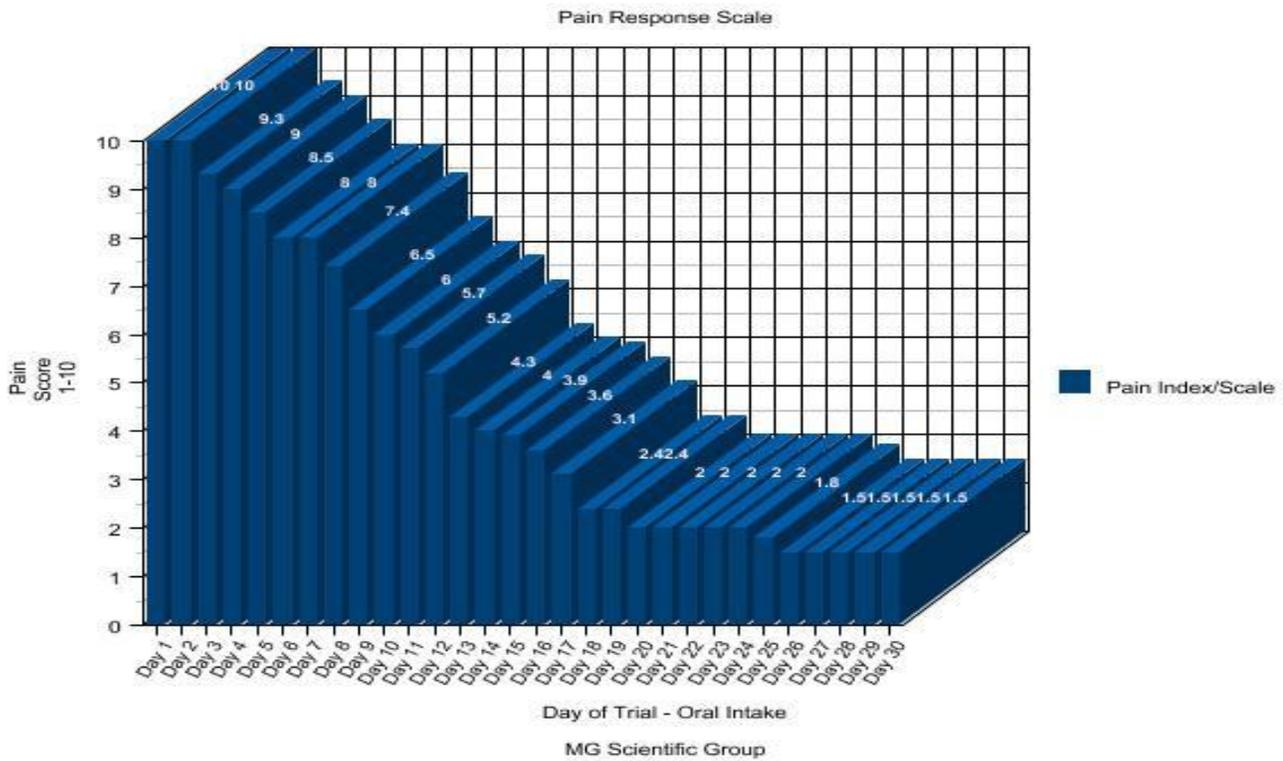


Chart A: Pain Scale Reduction Chart Recorded by Participants on a Daily Basis During Trial Day 1 – Day 30

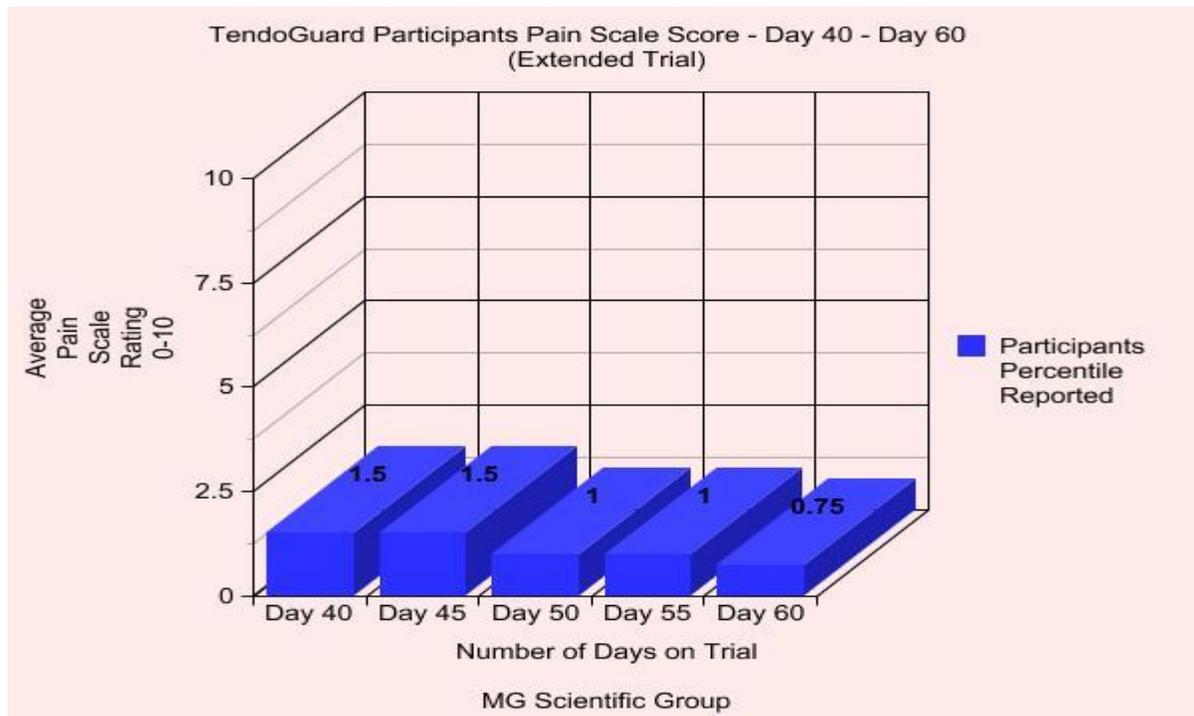


Chart B: Pain Scale Reduction Chart Recorded by Participants on a Daily Basis During Trial Day 40 – Day 60

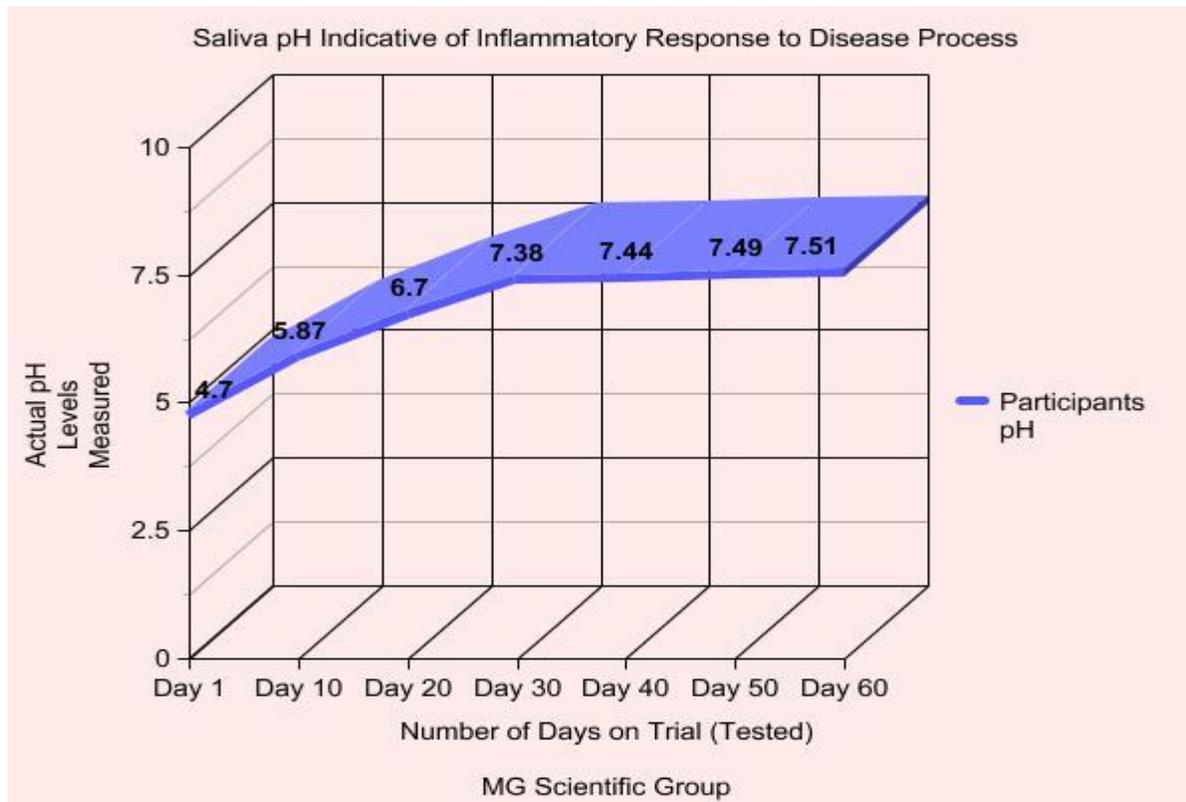
The above graphs identify the significant pain reduction score response as contributed by the trial participants (expressed as an average). The pain score contributed at the start of the trial by the participants averaged out at the top level being 10. We observed a significant daily reduction in the pain score during the trial period from day 1 (pain score of 10) to day 30 (pain score of 1.5). After extension of trial from day 30 to day 60, the participants' average pain scale and symptoms levelled out to .75 – 1.0 on a scale of 1-10 (bearable and non life altering pain). This indicates a very rapid clinical response of actual symptoms which lends support to the salivary testing rise of pH to a slightly alkaline state.

Significant Findings of 15 Positive Clinical Responses from Trial (Mixed with Clinical Comments)

- 4 participants could not walk any distance over 10 meters (average) without feeling some discomfort. The same participants were asked to record their walking distance at 75% of trial duration. Respondents recorded from 0.5 kilometres to 2 kilometres per day without major discomfort as felt prior to the trial.
- 1 participant improved greatly enough to cancel his diagnostic arthroscopy in the interim while taking TendoGuard.
- 1 participant reported not only an overall improvement in joint pain and mobility, but also a persistent acute oral eruption problem present for over 2 years dissipated while mid-way into the trial.
- 5 participants who were seniors presented an overall average of 78% improvement scale in “stiffness” and “tenderness” during normal exertion.
- 15 participants with total joint pain (vertebral/knee/shoulder/pelvic) indicated increased mobility average at 79% improving their pain scale average of > 5 to < 3 – standard pain scale of 1 – 10
- 5 patients with knee and hip pain associated with confirmed Fibromyalgia and CFS noted an overall increase in their pain index by 70%
- 1 participant’s finger nail quality improved from rippled (a sign of severe inflammatory process within the body) to non-rippled/normal appearance
- 43 % of Participants also noted that minor chronic skin blemishes on the face and hairline improved greatly while participating in the trial.
- 2 participants noted that they had a weight loss factor of >2 Kg’s, likely due to either a natural process or metabolic increase of the physiological state.
- No discernible differences between male or female and/or age group in order to acquire a positive clinical response.
- A Participant noted that not only did there mobility and pain decrease to a state where a walker was no longer required within the home, but also noticed his eczema had also improved in the severity of symptoms.
- A rheumatoid participant with osteoarthritis symptoms added noted both disease areas of pain and inflammation had improved her QOL (Quality of Life) by over 50% by day 55.

Targeted Clinical Response Results:

Supplementation with TendoGuard produced a significant treatment response at seven days for flexibility (29.6% increase; $P = 0.036$) and at 30 days for general pain (84.1% reduction; $P = 0.006$), flexibility (45.5% increase; $P = 0.005$), and range of motion associated pain (74.7% reduction; $P = 0.020$). A substantial treatment response continued through 60 days for pain (70.7% reduction; $P = 0.0001$). There were no adverse events reported during the study and the treatment was reported to be well tolerated by study participants.



Graph 1: Salivary pH tracking showing an acidic pH state normalizing and climbing to that of a balanced pH state

The above graph indicates the average pH taken at the commencement of the trial (day 1) and followed to the end response period of the trial (60 days). During an inflammatory state within the body, the pH of saliva drops considerably as a secondary response to the inflammation and disease process. The graph clearly shows an incremental rise at day 1 onward and followed until the trial termination of the trial at day 60.

At day 30 to day 60, we witnessed the salivary pH indicative of a healthy human being (asymptomatic for all conditions/disease process).

The normal/optimal humans’ pH for saliva is 7.34 to 7.50 respectively. Research shows that unless the body’s pH level is slightly alkaline, the body cannot heal itself. No matter what type of modality that is chosen to rectify ones health problem, it won’t be as effective until the pH level is slightly alkaline. If your body’s pH is not balanced, one cannot effectively assimilate vitamins, minerals and food supplements.

Conclusion:

TendoGuard is a novel dietary preparation when taken at a dosage of 375mg – 500mg twice per day which benefits joint inflammation, secondary mobility and other tertiary effects. TendoGuard naturally contains anti-inflammatory compounds and aids in the support for joint and/or tendon abnormalities. TendoGuard systemically works to retain and preserve healthy structure anatomical placements namely tendon, bone, joint, cartilaginous structures. This study demonstrates that TendoGuard may be a viable treatment option for the management of joint and connective tissue disorders and the inflammation associated with such. TendoGuard 375 mg - 500 mg taken once or twice daily significantly reduced pain by a rapid response at seven days and continuously to 60 days. Noted with further study TendoGuard benefited other various clinical and nuisance disorders associated with inflammatory response and autoimmune disorders. There were no side effects reported by any of the participants and no participants were dropped from the trial (voluntarily or forced).

Laboratory Analysis and Tested Specifications:

Origen - USA / Food for Human Consumption

Typical Analysis

Purity: 100% Mucopolysacarides: 9.15%
Solubility: 100% cold water Protein: 50.05%
Nitrogen: 8.10%

Microbiological

Salmonella, E. Coli Other Pathogenic Organisms: Not Detected / No Positive Recovery – ND/cfu/g
Yeast & Mould: <1000 cfu/g
Total Plate Count Max: 5000 cfu/g

Physical

Appearance: White/Off White Fine Powder
Odor: Neutral
Storage: cool, dry place with lid closed tightly upon opening

Signed,

S. G.

Dr. S. Gupta - Laboratory Manager



Dr. S. Morton – President