



## NEED FOR JOINT RENEW

According to the American College of Rheumatology (2012), Americans' joints are in painful disrepair. The good news is that you can now do something about joint health that is proven more clinically effective than any other approach.\* First, some facts:

- Over **27 million** Americans (12.1%) have osteoarthritis (OA), our **leading cause of disability**. Joint degeneration **by age 25 is now common**.\*
- **By age 75 almost everyone** suffers from reversible but diminished joint mobility and comfort.\*

**Joint Renew** is your natural solution for enhanced joint function. Enhanced repair, joint tissue renewal, pain relief, enhanced mobility, and an end to chronic inflammation are possible.\*

Degenerative joint disease, or OA, typically occurs when cartilage is worn down, due to lack of essential repair rebuilding nutrients. Traditionally, non-steroidal anti-inflammatory drugs (NSAIDS) have been the only choice for symptom relief. Statistics put **annual deaths from NSAIDS at 20,000**, and the 2001 Physicians Desk Reference (PDR) notes that **15% of NSAIDS users experience abnormal liver function or damage, and bleeding ulcers and intestinal permeability are 'common'**. NSAIDS act by inhibiting both the pain signals and the synthesis of cartilage building blocks. While temporarily helpful, this promotes cartilage loss. In contrast, **Joint Renew uniquely supplies the full range of joint-building blocks and promotes pain relief quickly,**

# Joint Renew

POWERFUL NUTRITIONAL PROTECTION

POTENT JOINT SUPPORT\*  
OVER 60 PEER-REVIEWED STUDIES



**usually within a few days rather than months (as is true for the best of other joint repair products).\***

## UNIQUE, NATURALLY

The ingredients in **Joint Renew** show over 20 years of clinical research successes. Only **Joint Renew uses the active, fully soluble forms of glucosamine KCl, glucosamine sulfate, and chondroitin sulfate, plus the collagen-building flavanols (soluble OPCs) and molybdenum that are in no other product**. Each of the active agents in **Joint Renew** is shown in research to help people with sports injuries and OA move pain free and with greater joint flexibility. By itself each nutrient is effective, but together they synergistically build and restore function at the cellular level.\*

**Glucosamines** are building blocks of glycosaminoglycans (GAG) and proteoglycans (PG). This makes up the **shock absorber, water-binding structure of cartilage**. **Sulfate** activates its therapeutic effect. Unlike NSAIDS, which block proteoglycans synthesis, **glucosamine and its sulfate** address the causes of OA. This halts and reverses cartilage degeneration and supplies the biochemical tools to rebuild damaged cartilage as people feel better. Recent work reveals the synergistic benefits of the highly active **glucosamine sulfate (GS) and glucosamine KCL**, combined only in **Joint Renew**. Increased absorption and delivery of the **active nutrients to cells means rapid pain relief and faster gain of flexibility**.\*

**Soluble Chondroitin sulfate (CS)**, another joint-supportive, repair molecule, works synergistically with glucosaminoglycans to rebuild cartilage. It has repair-promoting, anti-inflammatory properties, eases pain, helps heal wounds, and has been shown to be protective against heart disease. In studies on the anti-inflammatory effects of CS, patients moved joints more freely and without pain or the complications of NSAIDs.<sup>1\*</sup>

**Joint Renew** also provides a unique combination of other nutrients for joint health:

- Soluble, solvent-free **OPC flavanols** for collagen formation **reinforces joint health**.<sup>\*</sup>
- Cellular detoxifier and cartilage repair mineral, **Molybdenum**, also helps repair by clearing the body of sulfidic and related toxic metabolites that interfere with repair and contribute to pain and fatigue.<sup>2\*</sup>
- Better results are due to **purer ingredients and lack of contaminants**, such as fillers, binders, or excipients that interfere with its uptake and action in the body.<sup>\*</sup>

**Directions:** Take three (3) capsules twice daily until comfort is fully restored then three (3) capsules daily for maintenance or as directed by your health professional.

## SUPPLEMENT FACTS

Serving size: 3 Capsules  
Servings per container: 60

Energized Nutrients	Amount per serving	% Daily Value
Molybdenum (as glycinate).....	52 mcg.	115
Glucosamine sulfate HCl.....	900 mg.	*
Glucosamine KCl .....	300 mg.	*
Chondroitin sulfate (active, soluble).....	225 mg.	*
OPC (from Activin® Grape Seed Extract).....	45 mg.	*
Kosher gelatin .....	351 mg.	*
C16 and C18 alkyls <sup>†</sup> .....	6 mg.	*
Vegetable fiber .....	367 mg.	*
(organic croscarmellose)		

<sup>†</sup>From whole untreated palm fruit and leaf

\*Daily value not established

Other Ingredients: None

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## RESEARCH SHOWS JOINT REPAIR

Glucosamine sulfate actually reduces osteoarthritis of the knee according to a randomized, placebo-controlled Belgian study appearing in *Lancet*, January 2001. The 212 study participants, all diagnosed with osteoarthritis, receiving either 1,500 mg. of glucosamine sulfate a day or placebo, were scanned at the beginning of the trial and again at one and three years.<sup>\*</sup>

**After three years**, both osteoarthritis and related symptoms became worse in the placebo group. **No progression of osteoarthritis** was found after treatment in the glucosamine sulfate group and patients experienced improvement in their symptoms. **Researchers concluded that glucosamine sulfate is useful as a long-term disease-modifying agent in osteoarthritis.**<sup>3\*</sup>

Important to note is a comment by Dr. Jean-Yves Reginster of the University of Liege that study findings cannot be extrapolated to other over-the-counter products where the amount of active glucosamine is unknown.<sup>\*</sup>

Glucosamine sulfate also **outperformed NSAIDs** in studies comparing their impact on joint function. Head-to-head against ibuprofen, after two weeks of treatment, GS not only showed **more improvement of symptoms but also was significantly better tolerated.**<sup>4\*</sup>

## REFERENCES

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2. Pavelka K, Gatterova J, Olejarova M, Machacek S, Giacovelli G, Rovati LC. Glucosamine sulfate use and delay of progression of knee osteoarthritis: a 3-year, randomized, placebo-controlled, double-blind study. *Arch Intern Med* 2002 Oct 14;162(18):2113-23.
3. Qiu GX, Gao SN, Giacovelli G, et al. Efficacy and safety of glucosamine sulfate versus ibuprofen in patients with knee Osteoarthritis. *Arzneimittelforschung*. 1998;48:469- 474.
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Prosper Nutrition, Houston, TX 77066  
info@prospernutrition.com • 281-595-8959

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.