

# Dr. Colin Gage

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*"treating the cause of your problem, not just the symptoms"*

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## **Information on Glucosamine and Chondroitin Sulfate**

Since so many of my patients are taking Glucosamine and Chondroitin Sulfate, I thought it would be a good idea to supply some general information on them. However, everyone's health problems are not the same. Therefore, I strongly suggest you talk to your medical doctor or pharmacist before taking any prescription or non-prescription medication. With that in mind, here I go.

### **What are Glucosamine and Chondroitin Sulfate?**

Glucosamine and chondroitin sulfate are substances found naturally in the body. Glucosamine is a form of amino sugar that is believed to play a role in cartilage formation and repair. Chondroitin sulfate is part of a large protein molecule (proteoglycan) that gives cartilage elasticity. Both glucosamine and chondroitin sulfate are sold as dietary or nutritional supplements. They are extracted from animal tissue: glucosamine from crab, lobster or shrimp shells; and chondroitin sulfate from animal cartilage, such as tracheas or shark cartilage.

### **What do they do?**

Past studies show that some people with mild to moderate osteoarthritis (OA) taking either glucosamine or chondroitin sulfate reported pain relief at a level similar to that of nonsteroidal anti-inflammatory drugs (NSAIDs) such as aspirin and ibuprofen. Some research indicates that the supplements might also slow cartilage damage in people with OA. Definitive results about the effects of these supplements are expected from an in-depth clinical study currently being conducted by the National Institutes of Health.

### **What do you look for?**

Because dietary supplements are unregulated, the quality and content may vary widely. Recommended doses should cost about \$1 to \$3 per day, but most insurance companies do not cover this cost. If you decide to take these supplements:

- Choose products sold by large, well-established companies that can be held accountable.
- Read the product labels carefully to make sure the ingredient lists make sense to you. If you have trouble, ask your pharmacists for help.

- Be sure to consult your doctor before deciding to try these supplements.
- Make sure that OA is the cause of your pain.
- Do not stop or reduce your current prescribed medications without talking with your doctor.

### **How do you take them?**

If you decide to take these supplements, consult your doctor or pharmacist about the proper dosage. The amount used in studies of glucosamine was 1,500 mg per day and in studies of chondroitin sulfate, 1,200 mg per day was used. But, I don't recommend you just take these amounts without asking your medical doctor or pharmacist. You can try the supplements along with your current medications for six to eight weeks. If you don't experience any difference in your symptoms within a few months, you probably will not get any relief from using the supplements.

### **Are there side effects?**

The most common side effects are increased intestinal gas and softened stools. If you experience these problems, you might want to try another supplement brand before you stop using them altogether. More studies need to be done to confirm the safety and effectiveness of the supplements. Be sure to contact your doctor if you notice any unusual or new symptoms while you are taking them.

### **Cautions**

- Children, women who are pregnant, and women who could become pregnant should not take these supplements. They have not been studied long enough to determine their effects on a child or on a developing fetus.
- Because glucosamine is an amino sugar, people with diabetes should check their blood sugar levels more frequently when taking this supplement.
- If you are taking chondroitin sulfate in addition to a blood-thinning medication or daily aspirin therapy, have your blood clotting time checked more often. This supplement is similar in structure to the blood-thinning drug heparin, and the combination may cause bleeding in some people.
- If you are allergic to shellfish, consult your doctor before deciding to take glucosamine. In most cases, however, allergies are caused by proteins in shellfish, not chitin, a carbohydrate from which glucosamine is extracted.

With my patients, the results of taking glucosamine and chondroitin sulfate seem to be mixed. However, I have not witnessed anyone experiencing serious side effects from them. With this in mind, they may be worth a try. Of course, an even better approach to addressing the symptoms of osteoarthritis is to prevent it from occurring in the first place. Refer to my other recent articles for more information on how to do this.