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Nutramax Laboratories Veterinary Sciences, Inc. is a proud sponsor of these organizations:







*Source: Among veterinary brands. Survey conducted among small animal veterinarians who recommended oral joint health supplements.

*Dasuguin® contains FCHG49® Glucosamine, TRH122® Sodium Chondroitin Sulfate, and NMX1000® Avocado/Soybean Unsaponifiables, proprietary veterinary researched specifications.

U.S. Patent Nos. 6,797,289, 8,753,697, and 9,572,791. For use under U.S. Patent Nos. 8,568,803 and 8,808,770. Additional Patent Pending.



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A New Breed of Joint Health Supplement®



Does your dog need help getting around? **Ask your** veterinarian about the DASUQUIN **DIFFERENCE!**



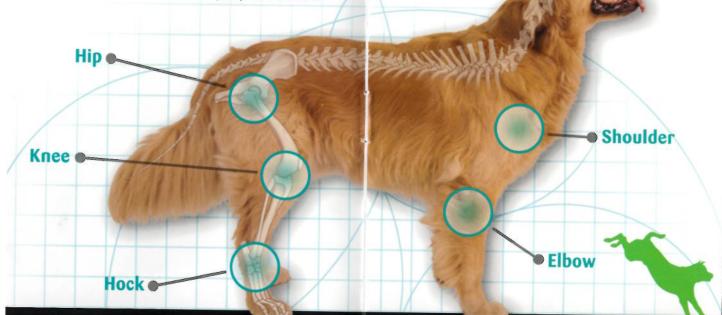
VETERINARY SCIENCES, INC.

Just like in humans, your dog's joints are formed where two bones meet. The ends of the bones are cushioned by cartilage, a slippery and tough tissue produced and maintained by its own specialized cells. The cartilage, joint fluid, and underlying bone work together like a shock absorber allowing flexible joint function. Cartilage lacks a direct blood supply, so nutrients must pass into the cartilage from surrounding tissue. These nutrients sustain cartilage cells and provide the components necessary to maintain a healthy cartilage structure.

When a dog is in motion there is tremendous pressure on the joint. In a healthy joint, cartilage production and breakdown are in balance. Scientists are not sure about all the factors that cause cartilage breakdown; however, they have discovered enzymes that play a role. Cartilage breakdown can exceed the process of production, especially, though not only, in very active dogs, older dogs, service or working dogs, and in large breeds. Joint health can then be affected resulting in less flexibility. You might notice that your dog slows down during walks, does not get up easily, or is reluctant to climb stairs or jump into the car.

HOW DO I KNOW IF MY DOG NEEDS DASUQUIN[®]?

Dasuquin is a joint health supplement which helps maintain cartilage structure and inhibits the enzymes that break down cartilage components. It may be a good time to ask your veterinarian about Dasuquin if you notice any changes in your dog's mobility or joint comfort as noted previously. Your veterinarian will examine your dog to determine if he/she could benefit from Dasuguin. If your veterinarian has already recommended Dasuquin. the sooner it is started the more opportunity your pet will have to respond. Your veterinarian may also suggest using Dasuquin to help protect cartilage. This can be important for maintaining an active life for many dogs. Dasuquin may also be used to help support cartilage following joint surgery.



TAL ME MORE ABOUT DASUQUIN® • • • • • •

What is **Dasuquin**?

Dasuquin is the #1 joint health brand recommended by veterinarians.* Dasuquin goes above and beyond the traditional glucosamine/chondroitin sulfate products on the market. Dasuquin contains NMX1000^{®*} avocado/soybean unsaponifiables (ASU), decaffeinated tea, FCHG49^{®*} glucosamine, and TRH122^{®*} chondroitin sulfate in tasty chewable tablets and soft chews.

What do the ingredients in Dasuquin do?

The combination of the glucosamine and chondroitin sulfate supports cartilage matrix production and helps block enzymes in joints that break down cartilage. These ingredients together have been shown in published studies to protect joint cartilage better than either one alone.

ASU stands for avocado/soybean unsaponifiables, an ingredient obtained from avocados and soybeans. ASU has been shown to support joint function and comfort levels. ASU complements the positive effects of the glucosamine and chondroitin sulfate in Dasuquin. Cell culture studies have shown that glucosamine/chondroitin sulfate plus ASU works better than glucosamine/chondroitin sulfate alone at inhibiting mediators involved in cartilage breakdown.



WHAT ESE DO I NEED TO KNOW ABOUT DASUQUIN? • • •

What formulations and sizes is Dasuquin available in?

Dasuquin is available in two different formulas because one size does not fit all dogs. Dasuquin for Small to Medium Dogs has been optimized for dogs under 60 pounds. Dasuquin for Large Dogs contains a formula optimized for dogs 60 pounds and over. Both formulations are available in chewable tablets and soft chews. The 84 count size is a convenient size for use during the initial 4–6 week loading period, while the 150 count economy size is more cost-effective for long-term use. Dasuquin is also available in a formula with MSM (methylsulfonylmethane). Your veterinarian can advise you on which formula is best for your dog. Dasuquin is also formulated for cats in flavored sprinkle capsules.

Where do I purchase Dasuquin?

Dasuquin is available from your veterinarian. As your pet's health care professional, your veterinarian is best qualified to decide if Dasuquin may benefit your dog and can monitor your pet's response, making any adjustments necessary to the administration level.

What else can I do for my dog?

Your veterinarian may recommend exercise, which is important for optimal joint function and weight control. It has been shown that when joints are immobilized, cartilage structures deteriorate at a rapid rate. You should ask your veterinarian about moderate exercise. Walking on sand or another soft surface or even swimming will help circulate needed nutrients and reduce excessive stress to the cartilage. It is important not to push your pet but to exercise at a comfortable pace.

HOW DO I CARE FOR MY DOGS

How is Dasuquin® administered?

The recommended initial administration period is 4–6 weeks; however, some dogs may respond in a shorter period of time. If desired, the number of Dasuquin



[†]Every Other Day

What should I look for when giving Dasuquin?

Observe your dog closely, and notice whether your dog seems more comfortable doing those activities he/she seemed reluctant doing or had some trouble doing previously. Changes in your dog's comfort level may occur gradually. Allow time for your dog to respond. It may take 4–6 weeks, though some dogs may respond sooner.

My dog's food contains glucosamine and chondroitin sulfate. Do I still need Dasuquin?

Yes. None of the foods contain the same researched combination of high quality ingredients found in Dasuquin. The amount of glucosamine and chondroitin sulfate in dog food is minimal. Even if these diets contained high quality glucosamine and chondroitin sulfate, according to the amounts listed on the labels a dog would need to consume much more than a serving to obtain the amounts found in Dasuquin. In addition, both glucosamine and chondroitin sulfate may degrade when subjected to the heat or extreme pressure in the manufacturing process of commercial dog food.

Are there any safety concerns with Dasuquin?

While sensitivity to avocados has been reported in a few dogs, taking Dasuquin tablets or soft chews is not the same as eating whole avocados. The ASU in Dasuquin has been evaluated in a safety study in dogs, and no adverse effects were noted from administration. There are no known contraindications or known interactions between Dasuquin and any drug or supplement.

