[IMAGE]

Joint Supplements for Athletes

By Robert Silverman, DC, MS, CCN, CSCS

Maintaining joint health should be a daily focus for athletes. Joint health is a complex issue for everyone, but for athletes it poses a greater concern. The constant, intense strain on joints from athletic involvement sets the stage for joint inflammation and ultimately degeneration.

A nutrient-rich diet is the first line of defense against inflammation. Unfortunately, food is not sufficient in nutrients to heal damaged structures. What ultimately matters is not what the athlete eats, but how many nutrients enter the bloodstream in order to reach target tissue. However, the necessary addition of supplements becomes problematic because of the abundance of products on the market that lack quality validated by research. Here is a partial list of my favorite research- and practice-tested supplements to discuss with your doctor.

Multivitamins

A multivitamin / multimineral should be part of an athlete's foundational nutrition. They should be from a reputable source, which would make them certified from GMP (Good Manufacturing Practice), NSF (National Sanitation Foundation) or TGA (Therapeutic Goods Administration).

An optimal multivitamin / multimineral will have vitamin E, carotenoids, zinc, magnesium, copper, a full complement of B vitamins, and microcrystalline calcium hydroxyapatite (MCHC) for the calcium component. MCHC has been shown to not only prevent bone loss, but also promote bone growth.

joint pain - Copyright â Stock Photo / Register Mark Fish Oil / Omega-3

Numerous studies on omega-3 fatty acids indicate they improve cardiovascular profiles. Two grams of EPA-DHA, when taken daily, reduced pain in almost 60 percent of patients with neck and lower back pain. Consumption of omega-3 may decrease acute chronic pain and inflammation – a serious problem as a result of long-term athletic performance.

Proteolytic Enzymes

Studies suggest patients who receive proteolytic enzymes experience reduced swelling, pain and inflammation, as well as faster recovery rates from injury. Proteolytic enzymes include trypsin and chromotrypsin, which are often coupled with bromelain. Studies show treatment with bromelain resulted in a clear reduction in swelling, pain at rest, pain during movement and pain in tender areas.

In my experience, use of this supplement in a treatment plan within 72 hours of an athletic injury can lead to a faster recovery.

Vitamin D

This is an essential vitamin required by the body for the proper absorption of calcium, bone development, control of cell growth, neuromuscular functioning, proper immune functioning and alleviation of inflammation. A 2010 study found vitamin D deficiency in African-American athletes and athletes who suffered muscle injuries. It was noted that 50 percent of the athletes tested had levels consistent with vitamin D deficiency.

Dr. Scott Rodeo, co-chief of the Sports Medicine and Shoulder Service at the Hospital for Special Surgery, noted that "screening and treatment of vitamin D insufficiency in professional athletes may be a simple way to help prevent injuries." Results of the study were presented at the American Orthopedic Society for Sports Medicine's 2011 annual meeting.

A 2003 study involved vitamin D-deficient and chronic low back pain subjects who were given 5,000 IU (if less than 110 pounds) and 10,000 IU (if more than 110 pounds) daily. After three months, the 299 subjects who were deemed vitamin D deficient beforehand had reported a disappearance of their back pain. The study also showed that 341 of the 360 subjects were relieved of their chronic low back pain with this vitamin D supplementation regimen.

An increase in vitamin D intake for athletes has been shown to decrease risk for stress fractures, for which they are at greater risk than the general population.

Glucosamine and Chondroitin

Glucosamine and chondroitin stimulate the formation and repair of articular cartilage. They have also been shown to reduce pain and inflammation, and slow cartilage loss. A 16-week double-blind, placebo-controlled crossover trial of a combination of 1,500 mg a day of glucosamine HCI and 1,200 mg a day of chondroitin sulfate showed the combination relieved common symptoms of knee osteoarthritis.

Silica

Silicate mineral contains a wide spectrum of minerals and helps with proper absorption of essential nutrients the body requires. It also helps the body use other minerals effectively. A key benefit of this type of mineral complex is the relatively rapid response. An important example of silica's benefit lies in the increased absorption of calcium, which is necessary to prevent bone deterioration.

Methyl-Sulfonyl-Methane

MSM is a sulfur compound normally found in many of the foods we eat. It is a natural analysis and anti-inflammatory agent. A double-blind, parallel placebo study was performed using a combination of 500 mg of glucosamine and 500 mg of MSM, three times a day for 12 weeks. The therapy combination showed better efficacy in reducing pain and swelling, and in improving the functional ability of joints, than the individual agents administered alone.

The more impressive result: The onset of analgesic and anti-inflammatory activity was found to be more rapid with the combination than with glucosamine alone, providing more rapid improvement in patients with osteoarthritis.

ETA Fatty Acids

The fatty acids found in New Zealand green-lipped mussels (eicosatetraenoic acids – ETAs) may play a key role in the reduction of joint swelling due to arthritis. Studies suggest ETA oils from sea mussels are more effective in reducing inflammation than aspirin or ibuprofen.

A key component of athletic performance and injury treatment is a diet rich in nutrients and quality-controlled, well-researched supplements. The addition of these supplements has been shown to both prevent joint deterioration in athletes and provide rapid response for athletic injury. Talk to your doctor for more information.

Robert Silverman, DC, MS, CCN, CSCS, graduated from the University of Bridgeport, College of Chiropractic. He also has a master's of science in human nutrition. Dr. Silverman is a nationally known speaker and has published numerous articles, in addition to giving seminars on injury-related prevention, treatments and nutrition for various organizations and Fortune 500 corporations. He also serves as a chiropractor and sports injury consultant for basketball players, professional wrestling organizations, local, collegiate, and professional sports teams, professional triathletes, body-builders, martial artists and cyclists. To learn more, visit his website: www.drrobersilverman.com.

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