Osteoarthritis

Osteoarthritis is also known as ‘wear and tear’ arthritis and is the most common form of arthritis. In people with osteoarthritis, the cartilage in the joints becomes worn down. Cartilage covers the ends of the bones and allows for the bones to move smoothly against each other (cartilage is the protective cushion on the end of the bones). Damage to the cartilage typically results in pain and leads to stiffness of the joint. In some cases, reduced joint movement and function may affect a person’s ability to perform daily tasks such as climbing stairs, walking or opening jars. Any joint may be affected; however, the joints in the knees, hips, fingers, feet and spine are most commonly affected by arthritis.

Signs and symptoms of osteoarthritis

Signs and symptoms of osteoarthritis vary from person to person and also depend on which joint is affected. Some people with osteoarthritis do not experience pain or other symptoms, and some may be able to function normally despite the pain, while others may find it difficult to perform even simple tasks due to pain.

Signs and symptoms may include:

- **Pain** typically occurs near or over the affected joint but may also be referred to other areas. Initially, pain increases with activity and eases with rest, but it can also become more constant later in disease.
- Morning **stiffness** usually gets better within half an hour of rising, but stiffness may recur after prolonged periods of inactivity. Joint pain and stiffness may also be more pronounced in cold or damp weather.
- **Swelling** may occur as a result of excess fluid build-up.
- When joints no longer move smoothly against each other, a **grating or crackling sensation** may occur when the joint is moved. Sometimes clicking noises may be heard.
- **Changes in the shape** of the affected joint(s). Bone spurs (enlargements/outgrowths of bone), also known as osteophytes, can form around the edges of a joint. These changes may be prominent when small joints in the hand are affected, for example, if the joints in the fingers are affected.

Risk factors for osteoarthritis

There are several risk factors in developing osteoarthritis. These include:

- **Advancing age.** Although osteoarthritis may develop at any age, the risk increases with age. It appears to be more common in people aged 40 years and over.
- **Gender.** Women are more likely to develop osteoarthritis compared to men.
- **Obesity.**
- **Certain occupations, for example, occupations that require:**
  - frequent kneeling or squatting (for example, carpentry)
  - heavy lifting (for example, construction work)
  - prolonged standing or
  - walking long distances each day.
- **Injury.** Trauma or significant injury to a joint increases the risk of osteoarthritis in that joint, in the future.
FOCUS ON

Both glucosamine and chondroitin are natural components found in the body. Glucosamine is one of the building blocks of cartilage and chondroitin is a building block for the formation of joint matrix structure and may help protect against the deterioration of cartilage (may slow cartilage breakdown). It has been suggested that:

- MSM has antioxidant and anti-inflammatory properties and may help to protect cartilage and improve physical function.
- Curcumin and ginger may have pain-relieving and anti-inflammatory properties.
- Various vitamins and minerals included in ArthroGuard® (for example, vitamin C, vitamin E and selenium) may protect the cells against oxidative damage.

**Dosage and directions for use**

The recommended dose for adults is one tablet three times per day with meals, or as directed by their healthcare professional. It should be taken with calcium and vitamin D.

Patients should be advised to avoid taking the tablet at bedtime.

Results may vary from person to person. In order to achieve full benefit, ArthroGuard® should be used for at least four weeks.

**Contraindications**

ArthroGuard® should not be used by people who:

- Are hypersensitive to any of the ingredients.
- Are allergic to seafood.
- Have severe glaucoma. (People with mild-to-moderate glaucoma should be monitored for changes in intraocular pressure.)

It is also not suitable for use in children.

Safety in pregnancy and lactation has not been established. ArthroGuard® should therefore not be used by women who are pregnant or breastfeeding.

**Special warnings and precautions**

Individuals with other underlying medical conditions should first consult with their healthcare professional before starting treatment.

ArthroGuard® has the potential to interact with other medicines. Individuals using other medication should also first consult with their healthcare professional before starting treatment.

**Side effects**

After taking glucosamine, some people may experience side effects such as (including, but not limited to), nausea, vomiting, dizziness, heartburn, constipation, diarrhoea, abdominal cramps, headache, fatigue, drowsiness, insomnia, fever, chills or skin disorders. People experiencing discomfort should be advised to consult with their healthcare professionals.

**Summary**

There has been a growing interest in the use of phytochemical, herbal products and nutritional supplements for osteoarthritis of the knee, hand or hip. However, clinical studies have either reported conflicting results or there is only limited data available on the efficacy of these substances. More well-designed studies are needed to evaluate the role of complementary or alternative therapies in patients with osteoarthritis.
Bibliography