

The Importance of the Drug Noltrex in Osteoarthritis

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Abstract. *Osteoarthritis (OA) is the most common disease of the musculoskeletal system, especially in the elderly, characterized by severe pain and often the presence of inflammatory signs. Upon reaching 75 years of age, OA occurs in 80% of the population. Pain is the most common symptom of OA, so treatment of the disease is aimed primarily at reducing pain and, as a result, improving joint function. Treatment of OA can begin with various non-pharmacological methods, including patient education, physical therapy, transcutaneous stimulation, etc. However, if non-pharmacological treatment methods are insufficiently effective, drug therapy is required. The action of most drugs is aimed primarily at treating the symptoms of the disease, although some of them are considered as drugs that affect the catabolic and anabolic processes that occur when cartilage is damaged. These medications are classified as disease-modifying drugs. The choice of drugs and combinations of various treatment methods remains strictly individual. Knowledge of the mechanisms of action, effectiveness, contraindications when prescribing drugs, and the safety profile of drugs is extremely important. The most common previously used methods for treating osteoarthritis (HA injections, oral chondroprotectors, lavage and debridement) are currently time received critical assessment, reflected in Cochrane reviews. The main conclusions of research analysts are as follows: a) positive effect of injections of HA drugs proven only for therapy for 13 weeks; b) results of treatment of patients with gonarthrosis the three methods mentioned above do not allow talk about their clear clinical effectiveness.*

Keywords: *pain, pain syndrome, osteoarthritis, Noltrex, non-toxic, non-steroidal anti-inflammatory drugs, chondroprotectors, analgesics, polyacrylamide, synovial fluid.*

Noltrex® is an hydrogenated biopolymer containing silver ions (HBISA) that is used for the treatment of osteoarthritis (OA). Noltrex® has a long-lasting effect, is not absorbed by any route, does not migrate from the point of implantation, does not result in infections, does not necessitate reapplications, is not allergic and results in regaining of joint function; that is why it can be used for the treatment of osteoarthritis. Noltrex® has a polyacrylamide structure and when the following characteristics such as: being biologically inert and non-toxic, resulting in minimum tissue reaction, preventing fibrosis, having antibacterial features and inducing minimum level of foreign body granulation tissue, ease of use are all taken into consideration we can conclude that; in the experimentally induced traumatic osteoarthritis of the organism knee joint, it eliminates the pain in the joint, increases the range of motion of the joint and results in easier use of the involved extremity. The use of injection of the biomechanical endoprosthesis of synovial fluid "Noltrex" provides long-term protection of the articular surfaces of the knee joint in patients with unilateral or bilateral gonarthrosis.

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