

Title (en)  
COMPOSITION COMPRISING GLYCOSAMINOGLYCANS AND HYALURONIDASE INHIBITORS FOR THE TREATMENT OF ARTHRITIC JOINTS

Title (de)  
ZUSAMMENSETZUNG MIT GLYCOSAMINOGLYCANEN UND HYALURONIDASE-HEMMERN ZUR BEHANDLUNG ARTHRITISCHER GELENKE

Title (fr)  
COMPOSITION COMPRENANT DES GLYCOSAMINOGLYCANES ET DES INHIBITEURS D'HYALURONIDASE DESTINEE AU TRAITEMENT D'ARTICULATIONS ARTHRITQUES

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Application  
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Abstract (en)  
[origin: WO03000191A2] A preferred embodiment of the present invention is directed to a composition and method for treating arthritis comprising one or more glycosaminoglycans in combination with one or more hyaluronidase inhibitor. In a more preferred embodiment the present invention is directed to a composition and method for treating arthritis comprising one or more glycosaminoglycans which would include at least hyaluronic acid in combination with one or more hyaluronidase inhibitors selected from the group consisting of heparan sulphate, dextran sulphate and xylose sulphate. In still a more preferred embodiment the present invention relates to a composition and method for treating arthritis comprising hyaluronic acid co-encapsulated with a hyaluronidase inhibitor in liposomes. Hyaluronic acid in the composition would confer the viscosupplement properties to the joint. The function of the hyaluronidase inhibitor would be to act as a preservative, and protect the hyaluronic acid from premature degradation in the joint. The liposomal encapsulation and delivery of the composition would serve as a slow release depot for the hyaluronic acid and the hyaluronidase inhibitor. This invention therefore provides a means of delivering stable and long lasting high molecular weight HA to the joint. The therapeutic effectiveness of the liposome co-encapsulated hyaluronic acid with the hyaluronidase inhibitor would be greater than simple injection of hyaluronic acid. The preferred method of treatment would be by intra-articular injection of an admixture of hyaluronic acid and a hyaluronidase inhibitor, optionally encapsulated in liposomes. The treatment is more effective than currently available treatments based on HA alone.

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