

NEW DENTAL GEL "LIZOSTOM": GENERAL CHARACTERISTICS, INDICATIONS FOR USE

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Introduction. On the Ukrainian and international pharmaceutical market there is a sufficiently a lot of drugs consist lysozyme. Preparations are in the form of tablets for sucking, lyophilisates for injection solutions, liquids for rinsing and lotions, and lysozyme is part of toothpastes. The common drawback of these drugs is to combine synthetic components, which often provoke allergic reactions in patients. Tablet form is not very convenient way to use in infants. In addition, tablets for sucking and rinsing solutions do not provide for a sufficient level of bioavailability of active ingredients. Such a dosage form as a gel with the active ingredient lysozyme hydrochloride, intended for the treatment of inflammatory diseases of the mucous membrane of the mouth and soft periodontal tissues, in domestic and foreign scientific literature was not discussed. Preference was given to gel form because it is well distributed and absorbed by the mucous membrane, it causes high bioavailability of the active ingredient. Rheological properties of selected bases gel help to reduce diffusion of lysozyme hydrochloride and slow erosion of saliva, making it possible to maintain the optimum concentration to the damaged area of the gums. The object of pharmacological research was dental gel based on lysozyme hydrochloride with the code name "Lizostom" whose composition has been developed at the Department of Industrial Technology of Drugs led by Professor O.A. Ruban. Study of a new dental gel "Lizostom" based on lysozyme hydrochloride The effective dose is defined on the model of burn wounds is 3 mg / kg. For the first time proved that the gel "Lizostom" has antimicrobial, antiexudative, haemostatic and restorative kinds of activities. Morphologically proven effectiveness gel "Lizostom" in experimental gingivitis and stomatitis. Determined that the gel "Lizostom" helps normalize cytokine profile in experimental gingivitis and stomatitis. Violation of prooxidant-antioxidant homeostasis in experimental gingivitis and stomatitis and conditions for the treatment gel "Lizostom." Proven role gel "Lizostom" in normalizing acid-base status and mobilize defense mechanisms of the body. Gel "Lizostom" normalizes parameters of cellular and humoral immunity. The influence of gel "Lizostom" the synthesis of nucleic acids. Scientific novelty confirmed by two patents.

Conclusions. Gel "Lizostom" effective in the treatment of experimental gingivitis and stomatitis and can be recommended for further clinical study in inflammatory diseases of the oral mucosa and periodontal soft tissues.