RESEARCH REGENERATIVE PROCESSES IN THE ORAL MUCOSA WITH EROSIVE AND ULCERATIVE STOMATITIS

Kavushevskaya N.S., Tyupka T.I. The National University of Pharmacy, Kharkiv, Ukraine tyupka_tatyana@mail.ru

To investigate the regenerative processes in the oral mucosa of rats with erosive and ulcerative stomatitis without treatment and the application of new dental gel "Lizostom." The experiment was conducted on 30 white rats weigh 180-200 g. All animals were divided into 3 groups: 1-st - intact control; 2-nd - rats with experimental erosive and ulcerative stomatitis (untreated control); 3-rd -rats with erosive and ulcerative stomatitis, which three times a day on the affected area applied gel "Lizostom" with lysozyme hydrochloride. To reproduce the experimental erosive and ulcerative stomatitis on mucous gums of the upper jaw on both sides and at the bottom - in the area of transitional fold, alternately rubbed over 8 min 4% solution of sodium hydroxide. Mitotic index was determined by cytological preparations gingival mucosa.

Experiments have shown that a day after the application of chemical burns of the mucous gums, all animals developed severe erosive and ulcerative stomatitis. In this case there was congestion, edema of the gums, serous raids. In the area of transitional fold lower jaw were 3-4 erosion. In the area of the upper jaw formed ulcers diameter of 2-3 mm. The general condition of the animals was decreased physical activity and decreased interest in food. One day after ulceration, mitotic activity maximum in the experimental group of animals was 92,3 \pm 1,82. In intact animals, the figure was 10,4 \pm 1,36. On the 7th day of the experiment a decrease in mitotic index to 31,8 \pm 1,76 in the experimental group of animals that coincided with a visual improvement of mucosal inflammation intensity and partial epithelialization of ulcers. In the future, the number decreased mitosis and almost returned to normal values after 21 days the experiment. In animals treated with dental gel with lysozyme hydrochloride, visual improvement of mucosal observed on the third day, and normalization mitotic index was held on the 15th day.

In the experimental erosive and ulcerative stomatitis is a significant increase in mitotic index - one of the criteria regenerative processes of the mucosa, which correlates with the severity of clinical signs of disease. The use of new dental gel "Lizostom" in experimental erosive and ulcerative stomatitis accelerates regenerative processes in the oral mucosa and reduces recovery.