CHARACTERISTIC OF QUALITY PARAMETERS OF GUM EPITHELIAL CELLS UNDER METAL-CERAMIC CONSTRUCTIONS.

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Actuality. Being a part of the system of mucous membranes, gum epithelium takes a proactive stance in reactive changes initiated by irritant factors of external and internal environment. This fact enables us to consider the changes of gum epithelial cells as markers of physiological counterpoise and reactivity of mucous membranes as well as an indicator of local and general homeostasis deviations which evolve as a consequence of lasting impact of traumatic and bacterial agents. The above mentioned data emphasize the actual necessity to characterize quality changes of gum epithelium under metal-ceramic constructions.

The purpose of this study is to define reactive changes of quality parameters of gum epithelial cells under metal-ceramic constructions.

The material for this research was provided by gum epithelium, which was picked from the patients subjected to the replacement of defected hard tissues of the teeth by means of metal-ceramic constructions. Epithelium was picked by spatula, transferred onto a glass slide and desiccated within 3-5 minutes with the open air access. Coloring of the material was conducted by the method of Gimsa-Romanovskyj with the following microscopic and morphological analysis.

Results of the study and their discussion. As indicators of pathological bias in characteristic of cellular structure of gum epithelium served the cells with signs of irritation, dystrophy and necrobiotic changes. Herewith, the

cytomorphological characteristic of cell structure accounts for chronic catarrhal inflammation due to a large number of segmented leukocytes of various functional status.

Conclusions. The available change of tinctirial properties of epithelial cells reveals possible subsequent directions of pathomorphologic changes of mucous membranes of gum under metal-ceramic constructions.