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FEATURES OF THE STRUCTURE OF COPD IN ELDERLY PATIENTS***Sattorov Yusufboy****Samarkand State Medical University, Uzbekistan****Burxonova Zараfruz Qobilovna****Samarkand State Medical University, Uzbekistan*

ABOUT ARTICLE**Key words:** Microcirculation, hydration, collagen fibers, epithelium, stomatoscopy.**Received:** 21.05.2024**Accepted:** 26.05.2024**Published:** 31.05.2024**Abstract:** Currently, there is a clear trend towards an increase in the elderly and senile population. Their share in the population in many countries exceeded 20%. Prevention of aging is one of the most actively and dynamically developing new areas of medicine in recent years. In the process of natural aging, factors such as decreased metabolism, dysfunction of the endocrine system and immunity, impaired microcirculation and neurohumoral regulation play a role. The age-related decrease in estrogen levels in a woman's body plays a significant role in the development of endogenous changes in COPD. Skin aging plays an important role in the mechanisms of the general biological aging process of the body. On the one hand, the oral mucosa determines the metabolic, structural and functional changes common to the entire body, and the condition of the skin as a whole may indicate the degree of aging of the body. On the other hand, the oral cavity is an organ that is constantly in contact with the external environment, as a result of which signs of aging may appear much earlier than in other organs.

INTRODUCTION

The oral cavity is sensitive to estrogen and a reactive organ due to its specialized receptors. Estrogens stimulate the proliferation of epithelial cells, pigmentation of the skin, positively affect its hydration and turgor, enhance vascularization, increase the level of hyaluronic acid in the

dermis. A decrease in estrogen levels is one of the important causes of skin aging. Hormone-dependent aging of the latter occurs independently of photoaging and is expressed in thinning of the skin and degradation of the skin.

The purpose of the study. To carry out a comparative analysis of the data of the morphological study of COPD in patients with normal and impaired reproductive function.

METHODS

The object of the study was biopsies of the oral mucosa obtained from 21 women aged 21 to 68 years. When selecting patients for this study, the following criteria were taken into account: age, state of the reproductive system, somatic diseases.

In order to identify morphological changes in epithelial cells, histological examination of biopsy specimens was performed. To detect changes in the thickness of the epidermis, the sections were stained with hematoxylin and eosin. To identify and determine the degree of degeneration of collagen and elastic fibers of the dermis, sections were stained with hematoxylin, picrofuxin and orsein. Microscopic examination was performed using a stomatoscopy.

RESULTS AND DISCUSSION

The features of the structure of the patients' COPD are compared depending on the state of the reproductive system. At the same time, a comparative analysis was carried out in patients with a normal menstrual cycle and patients with age-related changes in the menstrual cycle (peri- and postmenopause). The boundary between the epithelium and the papillary layer of the SOPR remained unchanged in 83.8% and smoothed out in 16.2% of the examined patients. In 62.2% of patients with a normal menstrual cycle, the structure of collagen fibers of the dermis corresponded to the norm, a weak degree of its dystrophy was detected in 30.6% of the examined, an average degree - in 7.2%. In 46.2% of representatives of this group, elastin fibers in the preparations remained unchanged. The same percentage of the surveyed women showed signs of mild elastosis, moderately pronounced in 7.6%. When. Analyzing the morphological properties of COPD in patients with age-related reproductive dysfunction, the following results were obtained. Have been received. The morphological structure of collagen fibers corresponded to the norm in 76.2% of the examined patients; in the remaining 23.8% of patients, a weak degree of degeneration of collagen fibers was revealed. Normal elastin fibers have been detected. In 59.2% of cases, a mild degree of elastosis was detected in 5.9% of patients, moderate in 34.7% of cases. In a comparative analysis of the data of the morphological study of COPD in patients

with normal and impaired reproductive function, the following functional patterns were found. The collagen fibers of the oral mucosa remained unchanged in 61.5% of patients of the first and 76.5% of patients of the second group. There were no statistically significant differences between the groups in the degree of degeneration of collagen fibers ($p=0.526$). The elastin fibers of the mucosa corresponded to the norm in 46.2% of patients with preserved reproductive function and in 58.8% of peri- and postmenopausal patients. A weak degree of elastosis was detected in representatives of the first group, almost 8 times more often than in representatives of the second group, and a moderate degree of elastosis, on the contrary, was detected in representatives of the second group almost 4.5 times more often than in patients of the first group. In general, the differences in the degree of elastosis in patients of the two compared groups were statistically significant ($p = 0.027$).

CONCLUSIONS

Thus, when comparing the structural features of SOPR biopsies in patients, depending on the state of the reproductive system, statistically significant differences between the groups in terms of the degree of elastosis in the dermis of the skin were revealed. Certain differences between the groups of examined patients in terms of changes in the thickness of the epidermis drew attention to themselves. When comparing skin biopsies in patients with a normal menstrual cycle and in patients with age-related changes in the menstrual cycle, statistically significant differences in the degree of skin elastosis between the groups were revealed ($p=0.027$). It is noteworthy that there is an obvious increase in the thickness and/or number of elastin fibers in women with disabilities. reproductive function was detected almost 4.5 times more often than in patients with a normal menstrual cycle. Confirmation of this fact is given in the literature, where it is indicated that a decrease in estrogen levels is one of the important causes of aging of the SOPR: hormone-dependent aging of the latter is expressed in thinning of the mucous membrane and degradation of elastin and collagen fibers .

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