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FEATURES OF COPD STRUCTURE IN ELDERLY PATIENTS***Tashmuhammedova Shaxnoza****Samarkand State Medical University, Uzbekistan****Axmador Inomjon****Samarkand State Medical University, Uzbekistan*

ABOUT ARTICLE

Key words: Microcirculation, hydration, collagen fibers, epithelium, gastroscopy.**Received:** 03.06.2024**Accepted:** 09.06.2024**Published:** 13.06.2024**Abstract:** Currently, there is a clear trend towards an increase in the elderly population. Their share in the population of many countries has exceeded 20%. Prevention of aging is one of the most actively and dynamically developing new areas of medicine in recent years. Factors such as decreased metabolism, dysfunction of the endocrine system and immunity, impaired microcirculation and neurohumoral regulation play a role in the process of natural aging. The age-related decrease in estrogen levels in a woman's body plays an important role in the development of endogenous changes in COPD. Skin aging plays an important role in the mechanism of the overall biological aging process of the body. On the one hand, the mucous membrane of the oral cavity determines 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 can appear much earlier than in other organs.

INTRODUCTION

The oral cavity is sensitive to estrogen and reactive organs due to its specialized receptors. Estrogen stimulates the proliferation of epithelial cells, pigmentation of the skin, has a positive effect on its hydration and turgor, promotes angiogenesis and increases the level of hyaluronic acid in the dermis.

A decrease in estrogen levels is one of the important causes of skin aging.1. Hormone-dependent aging occurs independently of photoaging and is expressed in thinning and deterioration of the skin.

The purpose of the study. To conduct a comparative analysis of data from morphological studies of COPD in patients with normal and reproductive dysfunction.

Materials and methods of research. The aim of the study was biopsies of the oral mucosa obtained from 21 women aged 68 to 21 years. When selecting patients for this study, criteria such as age, the state of the reproductive system, and somatic diseases were taken into account.

Histological examination of biopsies was performed to identify morphological changes in epithelial cells. 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, picrofoxin and orcaine. Microscopic examination was performed using gastroscopy.

The results of the study and their discussion. The features of the COPD structure in patients were 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 in patients with age-related changes in the menstrual cycle (before and after menopause). The boundary between the epithelium and the papillary layer of the SOPR was unchanged in 83.8% and smoothed 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 corresponds to the norm, and 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, the elastin fibers in the preparation did not change. In the same percentage of the examined women, the signs of elastosis were weakly pronounced and in 7.6% they were moderately pronounced. When. The morphological features of COPD in patients with age-related reproductive dysfunction were analyzed, and the following results were obtained. Received. The morphological structure of collagen fibers corresponded to the norm in 76.2% of the examined patients, and 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, mild elastosis was detected in 5.9% of patients, and moderate severity in 34.7% of cases. A comparative analysis of the data from morphological studies of COPD in patients with normal and reproductive dysfunction revealed the following functional patterns: collagen fibers of the oral mucosa did not change in 1% of patients in the 61.5 group and in 2% of patients in the 76.5 group. There was no statistically significant difference between the groups in the degree of degeneration of collagen fibers

($p=0.526$). The elastin fibers of the mucous membrane corresponded to the norm in 46.2% of patients with preserved reproductive function and in 58.8% of patients before and after menopause. A mild degree of elastosis was detected in representatives of group 1 almost 8 times more often than in representatives of group 2, and vice versa, moderate elastosis was detected in representatives of group 2 almost 4.5 times more often than in patients of group 1. In general, the difference in the degree of elastosis in patients of the two compared groups was statistically significant ($p=0.027$).

CONCLUSION

Thus, a comparison of the structural features of SOPR biopsies in patients revealed statistically significant differences between the groups in terms of the degree of elastosis of the dermis of the skin, depending on the state of the reproductive system. As for the changes in the thickness of the epidermis, certain differences between the groups of examined patients attracted attention. A comparison of skin biopsies in patients with a normal menstrual cycle and in patients with age-related changes in the menstrual cycle revealed a statistically significant difference in the degree of skin elastosis between the groups ($p=0.027$). It is worth noting that the thickness and/or number of elastin fibers in women with disabilities are clearly increased. 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, which shows that a decrease in estrogen levels is one of the important causes of aging in COPD 1. The latter hormone-dependent aging manifests itself in the thinning of the mucous membrane and the destruction of elastin and collagen fibers.

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