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**ЗБІРКА ТЕЗ ТА СТАТТЕЙ**  
науково-практичної інтернет-конференції  
з міжнародною участю

**СУЧАСНІ ПРОБЛЕМИ ВИВЧЕННЯ  
МЕДИКО-ЕКОЛОГІЧНИХ АСПЕКТІВ ЗДОРОВ'Я ЛЮДИНИ**



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*Матеріали науково-практичної інтернет-конференції з міжнародною участю «СУЧАСНІ ПРОБЛЕМИ ВИВЧЕННЯ МЕДИКО-ЕКОЛОГІЧНИХ АСПЕКТІВ ЗДОРОВ'Я ЛЮДИНИ». – Полтава: ТОВ НВП «Укрпромторгсервіс», 2023. – 207 с.*

be more comfortable also to write the tests on the board with further discussing the correct answers in the groups, with their marking on the board, re-writing in their copy-books with the correct answers' further backgrounding; if they have less velocity of writing, they would be glad to have permission to write only the tests' key words and correct answers' with short explanation, to have permission to write the concepts in the languages they manage well – Russian, English, French, Moroccan, Spanish, Arabic – for themselves. We saw the concepts of our students from the International faculties who were writing in Russian, English, French, Moroccan, Arabic in parallel to understand Science better if not completely while being at preparing department, the 1<sup>st</sup> and the 2<sup>nd</sup> courses, - 5-10 sheathes of the text, with different pens, pencils, markers. Such “unusual” students who are in “usual” Ukrainian groups like doing the same, comparatively to Ukrainian students' majority they catch every word of the tutors and write them very carefully.

Such “unusual” students, belonging to International faculty not always, while having attachment only to Ukrainian med or stomat, would like to receive their education in their own groups, with the teachers working with the International students, who understand their individual-typological peculiarities rather well, who perform the biggest degree of their needs' and distinguishing features' reflexy. They don't speak much about such desires, while being Grateful to God for their possibility to receive education in PSMU, while having a silent suffering from non-helping, non-understanding, ignorance, considering as “usual Ukrainian students”. They have no friends, they have problems with academic, cultural and even cross-cultural adaptation and Do Ask God and Understanding Teachers to Help them to study in a separate academic groups. We follow their opinion as well and would like to be the Tutors of such “unusual” students and to Help them.

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імені І.Я. Горбачевського, м. Тернопіль, Україна**

## **FEATURES OF CELLULAR COMPOSITION OF RECURRENT APHTHOUS STOMATITIS LESIONS**

Reccurent aphtous stomatitis (RAS) is one of the most common disease of oral mucose. The etiology and pathogenesis of RAS remain unclear. Multiple factors are associated with development and onset of this disease, such as: a positive family history, food hypersensitivity, smoking cessation, psychological stress and immune disturbance. Immune dysregulation linked to several triggers may facilitate the

development of RAS. The roles of the immune system and inflammatory processes have been confirmed in recent large-scale bioinformatics analyses.

**Materials and methods.** Material for cytological examination was taken from 20 patients with fibrinous form of recurrent aphthous stomatitis. It was performed using a sickle-shaped carvers, followed by application to a slide and drying by fixation with open air access. Staining was performed according to the Romanowski-Gimza method (a Romanowsky-type stain) and subjected to microscopic analysis.

**Results and discussion.** The cellular composition of the aphthous lesions is dominated by intermediate and superficial epithelial cells, their cytological organization corresponds to the class and level of differentiation. A large number of conditionally pathogenic microflora, mainly coccal, and inflammatory cells in the form of neutrophilic granulocytes and lymphocytes should be noted.

A large number of epithelial and hematogenous cells showed signs of necrobiotic changes initiated by microbial active contamination, mainly by streptococci. At the same time, the cytoplasm of segmented neutrophilic leukocytes was destroyed by phagocytosis. It should be noted that most of them are degeneratively altered and in a state of lysis with hypersegmented nuclei, no connections between them and no specific granularity. Microorganisms are visualized in the form of cytoplasmic inclusions in the cytoplasm of some cells.

Lymphocytes have the ability to cluster and adhere to the surface of epithelial cells, which probably shows the ways of cytotoxic effects on epithelial cells.

**Conclusion.** Thus, the results of the study of aphthous lesions cellular composition make it possible to assert that the cellular and humoral immunity of ulcerated surfaces are closely related, primarily due to polymorphonuclear leukocytes and lymphocytes.

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