

ANOTHER OR ENEMY? MICROFLORA IN THE CAPTIVITY OF MODERNITY

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In the modern world of technology, young people have begun to lose basic skills in conscious attitudes to hygiene, in some cases even forgetting their existence. Every year, terrible diseases are returned to Ukraine, which seemingly has been overcome for a long time, and mothers with young children, more often than other years, began to see doctors more often. For the most part, the simplest diseases of today, in our time of progress and development, become dangerous and protracted. This issue was interested in the group of "Agricultural microbiology" under the leadership of Professor Oksana Yablonska. The aim of the study: to establish the behavior and influence of pathogenic microbiota from the things that surround us every day, on a living organism in conditions of hygiene and in conditions of its observance. Materials of the study were soil, water, air, money, the sole of sports shoes, control washes from hand to wash and after, washings from the back of the cover of mobile phone and headphones. Methods of our study are bacteriological and analytical. In 60-80% of all tested Petri dishes were spherical colonies preferably S-shaped, 2-4 mm in diameter, colored in golden, white, lemon-yellow or orange pigment. For more detailed study of them, the smears were taken from the cultures and applied to the glass, staining was carried out by the Gram method. Microbial isolates in a greater percentage had spherical shape, some located singly, and some clustered in the form of "grape cluster", gram-positive. Based on this data, we can conclude that these colonies were similar to *Staphylococcus*. 1. Money from which cocci colonies were shown in large numbers. 2. Headphones from which a large number of micrococci and cocci were also shown, namely pathogenic and non-pathogenic staphylococci.

To prove the importance of hygiene, both personal and those things that surround us were washed with hands before and after a single wash with ordinary soap. For this experiment, the Petri dish was conditionally divided into 2 equal parts and labeled, one part was washed before washing, and the other part after washing. After 2 days, in the first part 115 colonies were counted and 17 - in the second part. Based on the results of the experience and the global nature of the problem as a whole, I want to recommend not to forget that since birth, we are surrounded by millions of different microorganisms that are already out of human control and cause terrible consequences, the cost of non-compliance with personal hygiene or hygiene of things that surround us can become a mass extinction of the human population, as in the Middle Ages. It is now possible to change the situation, starting with yourself and teaching others. You should always wash your hands several times a day, especially after visiting crowded places, as well as toilets, transportation, etc. Use wet wipes, if access to water is impossible, use antiseptics, do wet cleaning twice a day, treat the surrounding things with antibacterial and fungicidal solutions, disinfect things that affect the skin, such as mobile phones, earphones and more. To follow these simple rules, we will be able to maintain our health, improve our standard of living and be happy in the future.

