

**CURRENT STATE OF THE PROBLEM ON HIV / AIDS MORBIDITY
AMONG THE POPULATION OF MOROCCO, UKRAINE
AND THE REPUBLIC OF DAGESTAN (RUSSIA)**

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Introduction. HIV remains one of the main problems of global public health: to date, this virus has claimed more than 32 million human lives. According to the World Health Organization (WHO), in 2018 for the first time in history, people from key populations and their sexual partners accounted for more than half (an estimated 54%) of new HIV infections worldwide. In the regions of Eastern Europe, Central Asia, the Middle East and North Africa, representatives of these groups accounted for about 95% of new cases of HIV infection. Statistical data demonstrate a steady increase in the number of infected people, including those outside of social “risk groups”.

Aim. The aim of the study was to analyze the HIV/AIDS epidemic among the population of Morocco, Ukraine and the Republic of Dagestan (Russia) by the example of various population groups, transmission routes and the search for optimal measures to counter the spread of HIV.

Materials and methods. Analysis of the literature and statistical data on the epidemiological situation of HIV provided by the WHO Center and the Centers of the Ministry of Health of Morocco and Ukraine, Rospotrebnadzor (Dagestan, Russia).

Results and discussion. Almost 30 years ago, humanity learned about HIV/AIDS - a dangerous disease that reduces immunity and leads to serious complications and death. The level of HIV / AIDS among people directly depends on the standard of living in the country and the development of medicine. The situation is complicated by the presence of undetected cases of infection among the population because only every second person knows about his disease.

In the ranking of countries in terms of the spread of HIV / AIDS among the countries we study, each of them occupies a different position. Thus, the Republic of Dagestan (Russia) and Ukraine are in approximately equal positions in terms of the number of infected people: 45th place - 1.0% and 48th place - 0.9% of the population, respectively. At the same time, Morocco is in 129th place - 0.1% of the population is infected. Thanks to the coordinated actions of all participants in the program to counteract the spread and spread of HIV, Morocco has managed to reduce the number of new infections with this virus since 2010 by 42%. The coverage of HIV treatment services has also tripled: from 16% in 2010, 48% in 2018. The incidence rate in the Republic of Dagestan and in Ukraine is uneven. Most HIV-infected in Dagestan: Derbent, Magaramkent, Babayurt districts, and in Ukraine - economically developed industrial areas: Dnepropetrovsk, Odessa and Kiev. According to the results of 2018, for the first time since 2012 and for the second time in the history of Ukraine, a decrease in the spread of HIV infection has been recorded: by 2% in 2012 and by 0.52% in 2018. In the Republic of Dagestan (Russia), in 2018 the number of newly detected cases of HIV infection decreased by about 2%. Despite the overall decline in HIV infection in these countries, the rate is low.

Unprotected sex (50-80% of cases) remains the most common way of HIV infection in Ukraine and Dagestan, and the parenteral route of transmission is in second place, especially when injecting drugs (12-20%). The structure of all infected is dominated by citizens aged 30-50 years, mostly men. Annually, the proportion of newly diagnosed HIV-infected women of childbearing age is increasing. HIV prevalence among young people aged 15-24 is gradually decreasing, which may indicate the effectiveness of HIV preventive measures. In Morocco, infection among high-risk

populations is quite high. These are women who work in the sex business (1.3%), people who inject drugs (7.9%) and migrants (3%).

In Ukraine, in 2019, the Ministry of Health approved a new clinical protocol for the treatment and prevention of HIV infection, recommended by the World Health Organization. Each patient will receive free treatment for life. For emergency diagnostics, rapid tests are being introduced. In Dagestan, within the framework of the State Program “Development of Health Care of the Republic of Dagestan for 2016–2020,” the Anti-HIV / AIDS subprogram is being implemented. All infected are registered at the dispensary and 100% of patients receive modern antiretroviral therapy. There is expensive equipment to determine the immune status and viral load in patients with HIV infection, which means adequate treatment.

Some states have already completed or even exceeded the UNAIDS (Joint United Nations Program on HIV / AIDS) “90-90-90” objectives, which are to detect 90% of all infected people, provide access to antiretroviral therapy for 90% of infected people and achieve adequate virological control in 90% of people receiving therapy by 2020, while other countries are lagging behind in these indicators. In Ukraine, the UNAIDS strategy for 2016-2021 is consistent with the UN Sustainable Development Goals, which set global development priorities for the next 15 years, including overcoming AIDS by 2030. The same program is being implemented in Morocco (in force since 1998), in Russia (in force since 2007).

Conclusions. The number of people infected and sick with HIV / AIDS in the studied territories is slightly reduced. Coverage of dispensary observation and government programs for the prevention and treatment of HIV / AIDS patients can lead to stabilization of the epidemic situation. Modern equipment for determining the immune status and viral load in patients with HIV infection contributes to adequate treatment. An important direction of preventive work is to inform and educate various groups of the population in the means and methods of HIV prevention, and increase responsibility for their health.

PRE-CLINICAL TESTING OF IMUNO-CORRECTIVE SUBSTANCE OBTAINED FROM A MEDICAL LEECHES

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Introduction. A significant number of infectious and non-infectious diseases have grown in the world. The most common infectious diseases include: influenza, tonsillitis, pneumonia, tuberculosis, rabies, herpes, hepatitis, salmonellosis, dysentery, acquired immunodeficiency syndrome, and the number of coronavirus infections has increased significantly, especially now the world is spreading COVID-19 - coronavirus. All of these diseases can occur at different times of the year. The most common non-communicable diseases include: hypertension, coronary heart disease, heart attack, stroke, malignant neoplasms, diabetes, bronchial asthma. The course of all infectious and non-infectious diseases largely depends on the immune system. With weak immunity, animals and humans often develop various diseases of various etiologies. Therefore, scientists are looking for various methods to combat these ailments using natural and synthetic methods. One of the natural methods is hirudotherapy - the use of medicinal leeches in the treatment of various ailments. It has a positive effect on the links of immunity, on cancer cells and cancer therapy, treatment of chronic dermatoses, psoriasis, in the treatment of heart failure, in radiculopathies, arthritis, in the treatment of thrombophlebitis, varicose veins and other vascular diseases, male and