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## CONTENT

<i>Vakalyuk A.V., Vakalyuk V.M.</i> THE IONIC CONDUCTION MECHANISM OF LITHIUM-ALUMINUM-IRON SPINEL CERAMICS.....	5
<i>Velcheva N.</i> PATRIOTIC EDUCATION OF YOUNG PEOPLE IN THE MODERN WORLD.....	7
<i>Voloshyn O.S., Voloshyn V.D., Romantsova V.O.</i> ASSESSMENT OF FEATURES OF THE LEVEL OF MORBIDITY OF THE RESPIRATORY SYSTEM IN SEPARATE REGIONS.....	12
<i>Voloshyn O.S., Smorshchok Yu.S., Rozvodovska L.V.</i> ANALYSIS OF STATISTICAL DATA OF THE LEVEL OF MORBIDITY OF CARDIOVASCULAR SYSTEM ORGANS.....	16
<i>Znamerovska N.</i> IMPLEMENTATION OF INNOVATIVE TOOLS FOR TRAINING FUTURE MARITIME TRANSPORT SPECIALISTS.....	19
<i>Kovalenko O.</i> WORK OF A MILITARY PHOTOGRAPHER IN UKRAINE DURING THE CONTINUING WAR IN 2022-2023.....	26
<i>Koval R.</i> OVERVIEW OF FIRE DANGER.....	31
<i>Kostiashkina A.</i> FEATURES OF THE ADMINISTRATIVE AND LEGAL STATUS OF CHAIRMEN AND THEIR ADMINISTRATIONS.....	35
<i>Kravets O.</i> IMPROVEMENT OF THE ACCOUNTING FORM OF CURRENT ASSETS.....	42
<i>Kravchenko O.</i> LEGAL LIABILITY OF RUSSIAN PROPAGANDA FOR CRIMES COMMITTED AGAINST THE CIVILIAN POPULATION IN UKRAINE.....	46
<i>Kulchinska V.</i> MATHEMATICAL MODEL OF FORECASTING HORMONAL DISORDERS ON THE BACKGROUND OF AUTOIMMUNE THYROIDITIS.....	49
<i>Kurinni O.</i> THE FORMATION OF 4K SOFT SKILLS WHILE LEARNING FOREIGN LANGUAGES.....	52

ANALYSIS OF STATISTICAL DATA OF THE LEVEL OF  
MORBIDITY OF CARDIOVASCULAR SYSTEM ORGANS

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**The abstract.** *The results of the study of the dynamics of the level of morbidity of the cardiovascular system in people of different ages in the regional aspect are given in the paper. The data of the official medical statistics of the Ministry of Health of Ukraine for 2015 and 2017 in the Ternopil, Lviv and Dnipropetrovsk regions and in Ukraine as a whole were analyzed. The importance of analyzing possible regional factors determining the peculiarities of the incidence rate in different regions was noted.*

**Key words:** *diseases of the organs of the cardiovascular system, age-related features of the heart working, age-related features of the vascular system working, medical statistics.*

In the modern world the influence of stress, genetic predisposition, irrational nutrition, insufficient physical activity, lack of sleep - all these factors contribute to the disease of the cardiovascular system and are one of the main factors of premature loss of working capacity, disability and mortality in the population. This trend is typical both for Ukraine and the world as a whole.

The researchers note that 64.3% of the causes of death in the population of Ukraine are cardiovascular diseases, a significant share of which is hypertension. That is why it is extremely important to control arterial hypertension. Relatives of patients, pharmacists and nurses should participate in such control. For example, in the province of Ontario, Canada, 25 years ago, a hypertension control system was established using well-organized teamwork. This made it possible to achieve blood pressure control in almost 65-70% of patients. It should be noted that it is impossible to achieve significant success in the control of arterial hypertension without a conscious attitude to this on the part of the patient himself [1, p. 11-12].

Studies have confirmed that the course of diseases of the cardiovascular system is more complicated in patients with chronic diseases of the respiratory system. In particular, if patients with chronic obstructive pulmonary disease had concomitant chronic heart failure. This significantly aggravated the course of the disease, worsened the functional indicators of the cardiovascular and respiratory systems [2, p. 255].

In 2015, the number of first-time registered cases of diseases of the cardiovascular system was 4,321 patients per 100,000 population in Ukraine. According to the data of the regional analysis, this indicator was 4,482 patients per 100,000 population in the Lviv region, 4,591 in the Ternopil region, and 5,912 in the Dnipropetrovsk region. At the same time, in Lviv region in 2017, the number of first-time registered cases of cardiovascular disease was 4,172 patients per 100,000 population, which is 6.92% less than in 2015. However, in the Ternopil and Dnipropetrovsk regions, this indicator increased by 8.69% (4,990 people) and 5.53% (6,239 patients), respectively [3, p. 21; 4, p. 41].

In 2017, the total number of cases of diseases of the cardiovascular system decreased by 2.62% and amounted to 4,208 patients per 100,000

population. The total number of all diseases in 2015 is 62,775 per 100,000 people of the corresponding age. Between them, the share of diseases of the circulatory system is 4,321 cases, which is 6.88% of the total number. At the same time, in 2017, all diseases accounted for 62,895 people per 100,000 population, of which 4,208 patients were from the cardiovascular system, which is 6.69%. The incidence of circulatory diseases in the population during 2015-2017 decreased significantly.

Analysis of statistical data shows that in Ukraine, as of 2015, children aged 15-17 were diagnosed with diseases of the cardiovascular system in the number of 1,703 cases per 100,000 population. It is 1.4% of all diseases in children of this age (121,248 cases). In the age group of 18 years and older, the figure was 5,076 people, which is 10.42% of all diseases of this age group (48,722 cases). In 2017, there was a decrease in the level of diseases among children aged 15 to 17 years - by 7.52% (1575 cases, which is 1.25% of the total number of diseases - 125535 people). At the age of 18 and older, the indicator decreases, but not significantly - only by 2.07% at 4,971 cases per 100,000 population, which is 10.28% of the total number of diseases in people aged 18 and older (48,345 cases), respectively for 2017. Studies have shown that the morbidity of persons of both age categories decreased during 2015-2017.

So, in 2017, the morbidity rate of the population of Ukraine for diseases of the circulatory system decreased by 2.62%. In the regional aspect, this indicator in 2017 compared to 2015 also decreased in Lviv region, but increased in Ternopil and Dnipropetrovsk regions. In 2017, against the background of the nationwide trend towards a decrease in the incidence of cardiovascular disease, we observed a significantly higher incidence of cardiovascular disease in people aged 18 and older compared to people aged 15-17.

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Педагогічні науки

## РЕАЛІЗАЦІЯ ІННОВАЦІЙНИХ ЗАСОБІВ НАВЧАННЯ МАЙБУТНІХ ФАХІВЦІВ МОРСЬКОГО ТРАНСПОРТУ

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**Анотація:** Дана стаття присвячена питанням реалізації інноваційної діяльності у вищій технічній освіті. Наведено аналіз змісту понять «інновація», «інноваційна діяльність», «педагогічні інновації». Визначено сутність і складові інноваційного підходу у вищій освіті. Розкрито зміст і шляхи організації навчання здобувачів вищої освіти (ВО) з використанням LSM Moodle - системи управління курсами (електронне навчання), також відомої як система