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Experimental estimation of the efficiency of new policy in the pharmaceutical industry

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Аннотация. В статье в качестве эксперимента были выбраны две территории. Эти территории были разделены на экспериментальную и контрольную группы. При формировании элементов экспериментальной и контрольной групп промышленные предприятия, выпускающие фармацевтическую продукцию, были отобраны на основе выборочного наблюдения. Затем на предприятиях региона, сформированных в качестве экспериментальной группы, был внедрен стандарт GMP для фармацевтической промышленности. Влияние внедрения этой практики на объем экспорта предприятий, выпускающих фармацевтическую продукцию, изучалось с помощью научных экспериментальных методов. Полученные результаты сравнивались с результатами контрольной группы. При этом для двух выборок (опытной и контрольной) рассчитывались среднее значение, дисперсия, среднеквадратическое отклонение и коэффициенты вариации. Затем проверялись гипотезы о равенстве двух выборочных средних и законов распределения. В конце статьи были обобщены все полученные экспериментальные данные и определено, что только внедрение стандарта GMP в деятельность фармацевтических предприятий не влияет на объем их экспорта.

Abstract. In the article, two areas were selected as an experiment. These areas were divided into experimental and control groups. In forming the elements of experimental and control groups, industrial enterprises producing pharmaceutical products were selected on the basis of selective observation. Then, the Good Manufacturing Practice (GMP standard) for the pharmaceutical industry was introduced in the enterprises of the region formed as an experimental group. The effect of the implementation of this practice on the export volume of the enterprises producing pharmaceutical products was studied using scientific experimental methods. The obtained results were compared with the results of the control group. In this case, the average value, variance, mean square deviation and variation coefficients were calculated for two samples (experimental and control groups). Then, the hypotheses about the equality of the two sample means and the laws of distribution were checked. At the end of the article, all the experimental data obtained were summarized and it was determined that only the implementation of the GMP standard in the activities of pharmaceutical enterprises does not affect their export volume.

Ключевые слова: эксперимент, дисперсия, стандартное отклонение, функция Лапласа, доверительный интервал.

Keywords: experiment, variance, standard deviation, Laplace function, confidence interval.

1. Introduction

After adopting a new policy, the government will definitely want to know the effectiveness of this policy. Depending on this, it is possible to apply various measures in economic policy. The issue that is scientifically researched here is to determine the impact of economic policy, and usually, the search for answers to questions in this direction, in essence, goes back to the issues of "cause-effect relationship" research. There are three main approaches to causality research, including econometric methods, instrumental variables, and experimental evaluation [1]. Among these methods, experimental assessment methods have a special opportunity, which is based on the comparison of experimental samples from experimental and control groups.

In the research method under consideration, the studied effect is first tested in the experimental group, and then the obtained experimental results are compared with the results of the control group. If, as a result of the comparison, the average changes in the experimental group are higher than those of the control group, then the considered effect is considered effective.

The difference between a control group and an experimental group is that subjects in the

experimental group receive the effect being studied, while subjects in the control group do the opposite. Otherwise, all variables between the two groups remain the same [2].

Such an experimental method is essentially similar to the so-called "difference-in-difference", "natural experiments", "randomized experiments", "quasi-experiment" and "instrumental variable" methods.

In our study, experimental and control groups are formed randomly based on selective observation, and the obtained results are compared at the same time. Similar to this, the so-called "difference-difference" method compares the results before and after the effect, and gives a statistical assessment of the difference between them. For example, evaluating the impact of a new policy or law on two subjects, that is, before and after its implementation, is done by comparing it. In the experimental method conducted in the experimental and control groups, the objectivity of the result, that is, the randomness of the selection, plays a key role.

Subjects (sampling) to be tested in the difference-difference method are not randomly selected, and it is necessary to find "natural experience" with great probability. Natural experiments provide an opportunity to find answers

to questions that are important to society. For example, events such as suddenly raising the minimum wage in one country, extending schooling by one year, or restricting the hiring of migrant workers, but leaving these components unchanged in neighboring regions or countries, are measured and the impact on the welfare of society is determined. Also, determining the extent to which the minimum wage or the scale of immigration affects the labor market is of great practical importance for the state. In short, the assessment of how the result can change if one component is changed in two equally developed objects (regions) and the rest remain unchanged is the main focus of this research [3].

Experimental research and control group approaches have already proven to be beneficial in understanding the nature of problems such as education, health, evaluating the effectiveness of government programs, and poverty [4-6].

In order to evaluate the effectiveness of a certain reform or state program, it is necessary to divide the potential participants of these programs into "control" and "experimental" groups. Those not affected by the planned reforms are included in the "control" group, and those affected by the reforms are included in the "experimental" group. This is not easy to do in practice, because in real life cases of spontaneous formation of "control" and "experimental" groups are rare.

Based on the above, the main goal of our research is to show how the effectiveness of the newly adopted economic policy can be evaluated based on experimental methods. To achieve this goal, we mainly rely on mathematical-statistical methods and focus on statistical evaluation of samples taken from samples.

Experimental studies based on experiments and control groups are widely used today not only in various aspects of the economy, but also in the fields of pedagogy, psychology, sociology, biology, physics, medicine and agriculture, which are considered other non-economic areas.

Before we focus on various researches, we should mention the scientific research of Abhijit Banerjee, Esther Duflo and Michael Kremer, laureates of the 2019 Nobel Prize in Economics, who successfully used these methods and achieved great scientific achievements. They were deemed worthy of such a prestigious award for their experimental approach to fighting global poverty [7].

Laureates were among the first to implement real experiments in education and healthcare. They have piloted many experiments in education and health in countries such as India, Indonesia and Kenya.

For example, while Banerjee and Duflo experimentally determined the factors affecting the quality of education in India, that is, what factors can have a greater impact on children's effective acquisition of education [8], by the mid-1990s, Kremer also determined what factors are most important in improving the quality of education. showed in his experimental studies that it can hold [9-10]. Even their research shows that halving the size of school classes does not increase the quality of education [11-12].

The practical importance of Banerjee, Duflo, and Kremer's research is that they have armed the scientific community with powerful experimental approaches to assessing the effects of various large-scale projects and the effectiveness of public programs, identifying real problems in family poverty, education, and health.

Soon after, the development and improvement of experimental research was again recognized by the world scientific community. In 2021, David Card, Joshua Angrist, and Guido Imbens were awarded the Nobel Prize for their groundbreaking research into the impact of everyday "natural experiences" on societal well-being [13].

It can be said that most of the popular scientific researches of Card, Angrist and Imbens are based on experimental studies in economics. At the basis of their scientific research lies the problem of determining "impacts in the economy" with the help of natural experiments. In this case, one component is changed in one of the two selected objects, and the remaining components are left unchanged, and the resulting change is statistically evaluated. For example, economists compared an area in one of two US states (the law was changed), an "experimental" state that had changed its minimum wage law, with a neighboring area in a "control" state (an area that had not adopted the law in question). As a result, they were able to determine the effect of labor legislation on the unemployment rate. In 1992, New Jersey's minimum wage rose from \$4.25 to \$5.05, according to the study. In Pennsylvania, however, \$4.25 remained unchanged [14]. It can be said that it is almost a "natural experience".

An important feature of scientific researches based on mentioned natural experiments, especially quasi-experiments, is the use of the so-called "instrumental variable" method in them. In this method, an instrumental variable is introduced to establish correlation in the determination of "impact efficiency". For example, in the article "Democracy Does Cause Growth" by Daron Acemoglu, in order to prove that "democratization is the cause of economic growth", the co-authors choose the indicator "democratization in neighboring countries" as an instrumental variable. This indicator does not affect economic growth in the country, but it affects democratization. At the end of the article, the authors conclude that democratization increases people's income by 20 percent in the long run [15].

Another name for experimental studies based on causal analysis is called potential outcomes. This term was introduced in science for the first time by Neumann (1923) and Rubins (1974). That is why it is also called "Rubin's causal model" or "Neyman-Rubin's causal model" [16]. The potential outcome structure was first proposed by Neumann in his master's thesis in 1923, which analyzed completely randomized experiments. Further experimental studies of causality are extended by Rubin (stable unit treatment value assumption) [17].

In the potential outcomes model, causality is derived by comparing two states of the world. In this case, the subject needs to experience both potential states of the world [18]. However, there is no way to compare potential outcomes in the real world. Because in the real world, only one of the potential

outcomes will occur. We call the result that occurs factual, and the result that does not occur, we call it counterfactual. Also, we only observe factual results.

In short, in economics, like in other sciences (for example, physics, biology, agriculture, etc.), conducting experiments to study causal relationships in many vital issues is a very complex matter. Because the object of study of economists is usually human behavior. Especially in issues such as the type of system, justification of the effectiveness of new policies and economic growth, it is very difficult, sometimes impossible, to find a suitable natural experiment. Therefore, in the research under consideration, the experimental object is built on the basis of randomness, and this serves to facilitate the work of scientific research.

2. Materials and Methods

Problem statement: Let's say the Government adopts a new policy to introduce international standards (for example GMP for all local pharmaceutical companies manufacturing drugs) to pharmaceutical companies and to promote penetration of the global pharmaceutical market. did From a theoretical point of view, after the introduction of international standards, the quality of medicines will improve, as a result of this there will be an increase in trust (external independent proof of the achievement of standard requirements) and safety, an increase in the demand for medicines and, as a result, an increase in the export volume of pharmaceutical production enterprises. Based on this reasoning, it is required to prove the following hypothesis.

Research hypothesis (H₀): The export volume of pharmaceutical production enterprises that have implemented an international standard (for example, GMP) will be higher compared to enterprises that have not implemented the standard.

The proof of this hypothesis serves to substantiate the scientific conclusion that "standardization leads to an increase in the volume of exports". In order to test the hypothesis, the enterprises producing pharmaceutical products were randomly selected from the main set.

Selection options:

Option 1. The elements of the sample set (pharmaceutical production plants) consist of randomly selected enterprises from all regions of the country.

Option 2. The elements of the sample set consist of one region, first randomly selected at the national level, and then again randomly selected enterprises (pharmaceutical production plants).

Formation of experimental and control groups. In the first option mentioned above, the enterprises included in the experimental group are affected by different socio-economic conditions. Because they were selected from different regions. In the second option, the enterprises included in the experimental group are affected by the same socio-economic conditions. Because they were selected from one area.

Also, in both options, the elements of the selected set are randomly divided into sample and control groups. The number of manufacturing

enterprises included in the experimental group is 81 and the number of enterprises included in the control group is 85.

In this case, the GMP standard for the pharmaceutical industry was introduced in the enterprises of the experimental group, and this standard was not implemented in the enterprises of the control group. After 1 year, the results obtained from the experimental group will be compared with the control group.

Randomization conditions and assumptions. Assumptions of randomization in control and experimental groups are methodological principles designed to increase accuracy and reliability in research, and these assumptions allow for an efficient and correct design of the experiment. In order for the research results to be unbiased, the following hypotheses were put forward:

1. Enterprises included in the experimental and control groups were selected completely randomly, each enterprise has the same chance of falling into the selected groups.

2. Socio-economic opportunities of enterprises included in experimental and control groups from all regions are equal.

3. The activity of production enterprises included in the experimental group is not affected by factors other than the effect of the experiment, that is, the differences between the experimental and control groups are caused only by the effect of the experiment.

4. The amount and level of influence given to the enterprises included in the experimental group is the same, that is, the standards are introduced to the enterprises in the same way.

5. The effects given to the enterprises included in the experimental group do not interact with each other.

The next stage of the research is to process the data obtained from the experimental group and compare it with the results of the control group. First, to process the data from the experimental group, we record the experimental group as the first sample and the control group as the second sample:

$x = (x_1, x_2, \dots, x_N)$ - is the sample for the experimental group, where $N = 81$, $y = (y_1, y_2, \dots, y_M)$ - is the sample for the control group, where $M = 85$.

If we denote the average of the experimental group by \bar{x} and the average of the control group by \bar{y} , then the ratio of the following averages expresses the efficiency (η) of the change in the export volume of production enterprises as a result of the introduction of the GMP pharmaceutical standard:

$$\eta = \frac{\sum_{i=1}^k n_i x_i}{\sum_{i=1}^k n_i} / \frac{\sum_{i=1}^k m_i y_i}{\sum_{i=1}^k m_i} > 0 \quad (1)$$

If the elements of the experimental group (manufacturing enterprises) were randomly selected from the area where the pharmaceutical standard was introduced, then the following confidence interval is appropriate for the population average (\bar{x}) according to the Chebyshev theorem:

$$|\bar{x} - \bar{x}| \leq \Delta_{\bar{x}} \text{ ёки } \bar{x} - \Delta_{\bar{x}} \leq \bar{x} \leq \bar{x} + \Delta_{\bar{x}} \quad (2)$$

where $\Delta_x = t \cdot \sqrt{\frac{\sigma^2}{n}}$ is for repeated random sampling. If we reduce this equality to equality (2), then we have the following equality:

$$\bar{x} - t \cdot \frac{\sigma}{\sqrt{n}} \leq \tilde{x} \leq \bar{x} + t \cdot \frac{\sigma}{\sqrt{n}} \quad (3)$$

Different calculated values of t in the given inequality (3) are found using the following Laplace probability integral (P), and a special table has also been developed for this:

$$F(t) = P(|\tilde{x} - \bar{x}| \leq t\mu) = \frac{1}{\sqrt{2\pi}} \int_{-\frac{\tilde{x} - \bar{x}}{\mu}}^{+\frac{\tilde{x} - \bar{x}}{\mu}} e^{-\frac{t^2}{2}} dt; \quad t = \frac{\tilde{x} - \bar{x}}{\mu} \quad (4)$$

So, $\tilde{x} \in [\bar{x} - t \cdot \frac{\sigma}{\sqrt{n}}; \bar{x} + t \cdot \frac{\sigma}{\sqrt{n}}]$ it follows from this inequality that the average export volume of production enterprises in the main set (the area where the pharmaceutical standard is introduced) is not less than $(\bar{x} - t \cdot \frac{\sigma}{\sqrt{n}})$ and not more than $(\bar{x} + t \cdot \frac{\sigma}{\sqrt{n}})$ with the corresponding probability P .

If there is a positive change in the export volume as a result of the introduction of the pharmaceutical standard, then the average export volume of the producers in the experimental group may increase compared to the average export volume of the producers in the control group. This suggests that the conclusion that "the introduction of the standard leads to an increase in the volume of exports" is indeed reasonable. To prove the validity of this statement, it is appropriate to test the following hypothesis:

1. $H_0 : a_x = a_y$. The average export volume of manufacturing enterprises in the experimental group is the same as the average export volume of manufacturing enterprises in the control group.

2. $H_1 : a_x > a_y$. The average export volume of manufacturing enterprises in the experimental group is higher than the average export volume of manufacturing enterprises in the control group.

If the null hypothesis (H_0) is confirmed, then it shows that the introduction of the pharmaceutical standard has no effect on the increase in the export volume of manufacturing enterprises. If the alternative hypothesis (H_1) is confirmed, then the introduction of the pharmaceutical standard confirms that manufacturing enterprises have increased their export volume.

In order to test the null hypothesis (H_0) that the means of two independent (unrelated) samples are equal, it is appropriate to use the following Student's t - test:

$$t_{\text{emp}} = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}} \quad (5)$$

where n_1 and n_2 are the respectively sizes of the first (experiment) and second (control) samples, $n_1, n_2 \geq 30$.

The procedure for calculating the Student's t - test formula is directly related to the size of the first and second samples and their variances (or mean

standard deviations). In particular, formula (5) is valid when $n_1 \neq n_2, S_1 \neq S_2$.

In this case, the degree of freedom is equal to $(v) - v = n_1 + n_2 - 2$ [19]. Also, when $n_x \neq n_y, S_x^2 \neq S_y^2$, the degree of freedom (v) is calculated as follows [20]:

$$v = \frac{\left(\frac{S_x^2}{n_x} + \frac{S_y^2}{n_y}\right)^2}{\frac{S_x^4}{n_x^2(n_x-1)} + \frac{S_y^4}{n_y^2(n_y-1)}} \quad (6)$$

If $|t_{\text{emp}}| > t_{\text{cr}}(\alpha = 0,05; v)$, then the null hypothesis is rejected and the alternative hypothesis is accepted, if $|t_{\text{emp}}| < t_{\text{cr}}(\alpha = 0,05; v)$, then the difference between the means is unreliable [21].

If there were really positive changes in the export volume of the production enterprises included in the experimental group, then it should be shown that this change is not accidental, and that it differs from the export volume of the production enterprises included in the control group. In short, it is necessary to prove that such a difference between the experimental and control groups occurred due to the introduction of a pharmaceutical standard.

To confirm or deny the validity of the statement, it is appropriate to check the following hypothesis about the equality of the distribution laws of two samples (experiment and control):

3. $H_0 : F_x = F_y$. The pattern of distribution of production enterprises in the experimental and control groups in terms of export volume is the same.

4. $H_1 : F_x \neq F_y$. The pattern of distribution of production enterprises in the experimental and control groups in terms of export volume is different.

If the null hypothesis (H_0) is rejected and the alternative hypothesis (H_1) is accepted instead, then the manufacturing enterprises included in the experimental group confirm that the increase in the export volume is not a coincidence, but this effect occurred due to the introduction of the pharmaceutical standard.

Cramer-Welch test, Wilcoxon-Mann-Whitney test, Pearson's chi-square test, and Fisher's test are usually used to test hypotheses about equality of distribution laws of two statistical samples. It is known that Pearson's χ^2 (chi-square) criterion is used to evaluate the correspondence of the empirical distribution to the theoretical distribution. If it is required to test the hypotheses about the equality of the distribution laws of two independent statistical samples, then it is recommended to use the following Pearson's χ^2 - criterion [22]:

$$\chi_{\text{emp}}^2 = \frac{1}{N \cdot M} \sum_{i=1}^k \frac{(N \cdot x_i - M \cdot y_i)^2}{x_i + y_i} \quad (7)$$

where N and M are the respectively number of elements of the first (experiment) and second (control) samples.

The degree of freedom for Pearson's χ^2 (chi-square) criterion is determined by the equation $v = k - 1$. If $\chi_{\text{emp}}^2 < \chi_{\text{cr}}^2$, then the difference between the distributions is statistically unreliable, otherwise it describes reliability.

If experimental and control group data are measured on a relative scale, then the Kramer-Welch test and the Wilcoxon-Mann-Whitney test are used to determine the reliability between them. If the experimental and control group data are measured on an ordinal scale, then the Pearson's χ^2 (chi-square) test above is used. If the scale is dichotomous, then it is recommended to use the following Fisher criterion [23]:

$$\varphi_{\text{emp}} = |2\arcsin(\sqrt{p}) - 2\arcsin(\sqrt{q})| \sqrt{\frac{M \cdot N}{M+N}} \quad (8)$$

If $\varphi_{\text{emp}} \leq \varphi_{\text{cr}}$, then the description of the compared samples is consistent with a significance level of 0.05. If $\varphi_{\text{emp}} \geq \varphi_{\text{cr}}$, then it can be concluded that the reliability of the differences in the characteristics of the compared samples is 95 percent.

When choosing one or another statistical criteria, it is necessary to pay attention to the following two aspects:

1. Whether the two samples being compared are related (two dependent samples) or unrelated (two independent samples).

2. What measurement scale (that is, relative, ordinal, or dichotomous) can be used.

If the data in the experimental and control groups are on an ordered scale, and the number of classified L - category data is equal to 2 ($L = 2$), it is recommended to use the Pearson and Fisher criteria. Also, Pearson's test can be used in cases where $L \geq 3$.

If the number of elements in the experimental and control groups consists of less than 10 different values, Pearson's test for large sets ($N, M > 50$) and

Pearson and Wilcoxon-Mann- for small sets ($N, M \leq 50$) It is appropriate to use the Whitney criteria.

If the number of elements in the experimental and control group consists of more than 10 different values, using the Pearson test and the Wilcoxon-Mann-Whitney test for large-sized sets ($N, M > 50$) and small-sized sets ($N, M \leq 50$) it is appropriate to use the Wilcoxon-Mann-Whitney criterion.

3. Results

Before introducing the GMP standard (good manufacturing practice) to pharmaceutical coronas, it is necessary to first form experimental and control groups and then compare their averages. This gives us the opportunity to compare the pre-impact (state where the standard was not introduced to enterprises) and post-impact situations. To do this, we first introduce the following definitions:

α - category group (satisfactory): a group of enterprises producing pharmaceutical products with an export volume of \$20.000-\$40.000.

β - category group (average): a group of enterprises producing pharmaceutical products with an export volume of \$40.000-\$60.000.

μ - categorical group (good): a group of enterprises producing pharmaceutical products with an export volume of \$60.000-\$80.000.

η - categorical group (excellent): a group of enterprises producing pharmaceutical products with an export volume of \$80.000-\$100.000.

The initial (before the experiment) data on the experimental and control groups are reflected in the table below (Table 1).

Table 1

Distribution of export volumes and enterprise categories for two samples (before the experiment)*

Experimental group (sample 1)							
Before the experiment	Export volume	X_i	α	β	μ	η	Sample size
	Number of enterprises	n_i	24	32	18	7	81
Control group (sample 2)							
Before the experiment	Export volume	Y_i	α	β	μ	η	Sample size
	Number of enterprises	m_i	20	39	15	11	85

* Source: experimental data.

Based on the data of the first table given, we determine the average value for two samples using formula (1). Since we have given variables (X_i, Y_i - export volume in the corresponding groups) in the form of an interval variation series, the average value is determined using the weighted arithmetic value, and the values of the variables are determined based on the average value of the group interval.

The preliminary calculation results show that the average export volume of pharmaceutical production enterprises in the experimental group before the experiment was \$51.975.3, while the figure for the control group was \$54.000. The results

of the preliminary analysis confirm that the average value of the control group is 1.04 times higher than the average value of the experimental group.

Now, in order to implement the main idea of the research, we will introduce the GMP standard (necessary manufacturing practice) to the activities of 81 pharmaceutical production enterprises in the experimental group at the beginning of the year. As a result, by the end of the year, we will be able to record the following observational data for the experimental group with the standard implementation and the control group (Table 2).

Table 2

Distribution of export volumes and enterprise categories for two samples (after the experiment)*

Experimental group (sample 1)							
After the experiment	Export volume	X_i	α	β	μ	η	Sample size
	Number of enterprises	n_i	23	24	16	18	81
Control group (sample 2)							
After the experiment	Export volume	Y_i	α	β	μ	η	Sample size
	Number of enterprises	m_i	32	20	22	11	85

* Source: experimental data.

After the standard introduced at the beginning of the year for the activities of pharmaceutical production enterprises, the results of calculations based on the data obtained as a result of observation show that the average export volume of pharmaceutical production enterprises in the

experimental group was \$57.160.5, while in the control group this figure was \$52.823.5. Also, the results of mathematical-statistical calculations for two samples before and after the experiment (experiment and control) were described by the following indicators (Table 3).

Table 3

Mathematical-statistical calculation results obtained for two samples before and after the experiment*

Samples	Variance	Standard deviation	Coefficient of variation	Efficiency coefficient
(n_x, m_y)	(S_x^2, S_y^2)	(S_x, S_y)	(C_x, C_y)	(η)
Before the experiment				
Experimental group	341777168.1	18487.2	35.6	0.963
Control group	355764705.9	18861.7	34.9	
After the experiment				
Experimental group	496875476.3	22290.7	39.0	1.082
Control group	453204152.3	21288.6	40.3	

* Source: author's calculations.

4. Discussion

After the experiment, confidence intervals can be written for each sample mean for the observed data. To do this, generalizing the given equations (2) - (4), we write the following equation:

$$P\left(\bar{x} - t \cdot \frac{\sigma}{\sqrt{n}} < a < \bar{x} + t \cdot \frac{\sigma}{\sqrt{n}}\right) = 2\Phi(t) = \gamma.$$

In this case, the number t is determined from the equation $F(t) = \frac{\gamma}{2}$. According to the table of the Laplace function, the value of the t argument corresponding to the value of the function equal to $\frac{\gamma}{2}$ with $\gamma = 0.95$ reliability is 1.96.

Because, $2F(t) = 0.95$ from which $F(t) = 0.475$ and according to the Laplace function table $t = 1.96$. Therefore, after the experiment, the confidence interval for the mean of the control group (a_y) consists of $48288.11 < a_y < 57358.89$, and for the experimental group (a_x), the interval consists of $52306.08 < a_x < 62014.92$.

It is worth saying that it is appropriate to focus on 3 cases when determining confidence intervals. First, whether the sample obeys the normal distribution law, second, the size of the population, and third, the cases where the standard deviation for the population size is known and unknown.

Also, in small samples ($n < 30$) it is recommended to use the Student's distribution for

determining the value of t , and in large samples (with a normal distribution) the Laplace function. When the sample size increases indefinitely, the Student distribution tends to the normal distribution. Therefore, it is recommended to use the normal distribution instead of the Student distribution when $n > 30$.

Observational data show that after implementing the GMP standard in the activities of pharmaceutical manufacturing enterprises, there was an additional 0.119 (1.082-0.963) unit change in export efficiency. Also, after the introduction of the standard, the share of the number of exporting enterprises belonging to group \bar{e} in the experimental group was 9 percent before the experiment, and after the experiment this indicator was 22 percent (Fig. 1).

Although the standard was not introduced in the control group, there was a sharp decrease in the percentage of exporting enterprises belonging to group β , which was 24 percent (45 percent before the implementation of the practice).

Now, in order to determine whether the above positive changes (increase in the number of exporting enterprises) really occurred due to the introduction of the GMP standard, we will test the hypothesis ($H_0: a_x = a_y$) about the equality of the means of two independent samples. To do this, we determine the value of Student's t - criteria using

equation (5) equal to $t_{\text{emp}} = 1.28$. Using the formula (6) presented in the study, it follows that the value of the degree of freedom (v) is equal to 162.6.

However, since the Student's table value corresponding to $\alpha = 0.05$ and $v = 162.6$ is equal to 1.972 and the $|t_{\text{emp}}| < t_{\text{cr}}(\alpha =$

0,05; 162.6) condition is met, it follows that the difference between the sample means is unreliable. The essence of this uncertainty is whether the difference between the experimental and control group means is really due to the implementation of the standard or due to other factors? makes the idea unreliable.

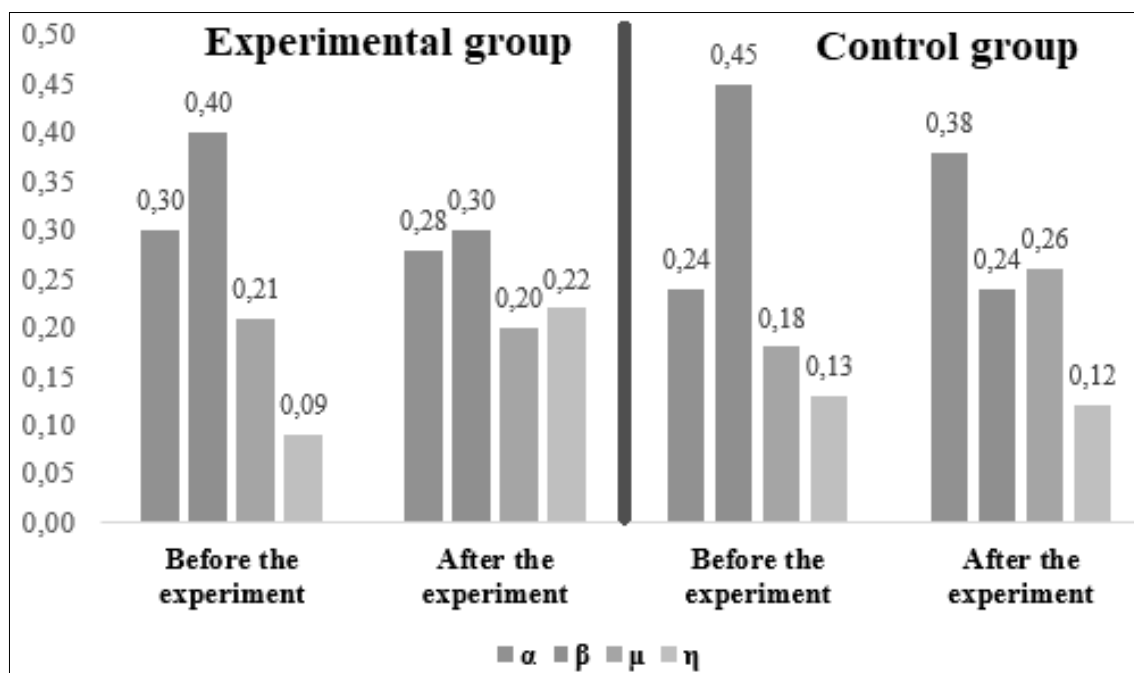


Fig. 1. Changes in the share of the number of exporting enterprises before and after the implementation of the GMP standard in the activities of manufacturing enterprises (as a percentage of total)*

* Source: author.

In order to further investigate this uncertainty, we will test the hypothesis of the equality of distribution laws for two samples (experiment and control). For this, we calculate the value of Pearson's χ^2 criterion using formula (7). The calculation results show that the value of this criterion is 278.9 and its critical value is equal to 7.82 with probability $\alpha = 0.05$ and value $v = 3$. Since the calculated value (278.9) is greater than the critical value (7.82), it follows that the difference between the distributions is statistically reliable.

Therefore, since $\chi_{\text{emp}}^2 > \chi_{\text{cr}}^2$, the third hypothesis presented in the study ($H_0: F_x = F_y$) is rejected. According to him, due to the introduction of the standard, a change is felt in the relevant distributions of samples, which results in different distributions.

5. Conclusion

At the end of the research, the following scientific conclusions were reached:

1. The approach based on scientific experience among the methods of researching cause-and-effect relationships provides an opportunity to make reliable scientific conclusions in determining the existence of important connections between economic events. This method is based on comparing the results of the experimental object (experimental group) with the results of the control group. Here, the quality of scientific experiments is directly determined by the accuracy and reliability of the research. This requires the fulfillment of several relevant randomness conditions and assumptions. Assumptions of randomization in control and experimental groups are methodological principles designed to increase accuracy and reliability in research, and these assumptions allow for an efficient and correct design of the experiment.

2. Mathematical-statistical calculations based on the results of the tests carried out in the experimental group, including the arithmetic mean value, dispersion, mean square deviation and variation coefficients calculated for the samples give

an opportunity to form preliminary conclusions regarding the determination of the effectiveness of the effect. Then, testing the hypotheses about the equality of the averages of the sample sets and their distributions, in fact, gives the opportunity to make clear conclusions about the reliability of the effectiveness of the effect given to the experimental group. Here, when various conditions are met, the Student's t-test formula for the equality of the sample means and the hypothesis of the equality of distributions, the ability to correctly choose the exact statistical criterion is considered the most important scientific issue.

3. The results of processing the experimental data presented in the study confirm the increase in the export volume of the enterprises producing pharmaceutical products due to the introduction of the GMP standard, that is, due to the implementation of the necessary manufacturing practice. As a final conclusion, it should be said that the improvement of scientific experimental methods will pave the way for the evaluation of the effectiveness of such new policies, laws and government programs in the future.

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