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Education Excellence and Innovation Management through Vision 2020

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Evaluation of Financing the Health Care System in Ukraine

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Abstract

The article presents the analysis of the state and specific aspects of financing health care system in Ukraine compared to the other countries in the world. It has been proved that there is dependence between total expenditures on health care and life expectancy of population. The deficit level of financial resources in the medical sphere in Ukraine was determined using production-possibility curve to achieve the health-related targets: reducing the number of children who die before their fifth birthday, and reducing death rate among men and women at the age of 15 – 60. Exponential regression was applied to carry out calculations. The analysis was carried out using the indexes from 184 countries (the data were taken from the following periods: 2011, 2013 and 2014). With the help of analytical grouping these indexes were divided into 9 groups depending on the GDP level per capita. The results of the calculations show that Ukraine should additionally spend up to 43.4 billion USA dollars annually to achieve the level of developed countries, whose indexes characterize the efficiency of the health care system. The main causes of unreasonable and inefficient use of financial resources in the health care system of Ukraine were defined. This allowed to evaluate a potential of the public funds savings due to improving the efficiency in the groups of the analyzed components.

Keywords: financial provision, health care, budget, public finances, financial resources

Introduction

Health care is one of the most important components of the complex system of social protection of the population. There is a great variety of different models of financing health care, such as universal model (Beveridge model) in which health care is financed generally through taxed payments (Great Britain, Norway, Ireland); Bismarck model or continental model, according to which health care is financed through payroll deductions (Germany, Austria, France, Belgium, etc.); liberal or private model that is financed at the cost of private payments (USA, Switzerland). However, in spite of this variety, in most countries, public (budget) money is one of the main sources of funding health care system. As a rule, in any country financing health-care system is carried out due to the combination of public and private spending. However, the correlation of these resources can vary depending on the chosen model.

Health care system in Ukraine was formed in the times of the USSR and presents an extensive network of medical institutions, that are mainly financed through public money (financing model is universal (Semashko model). Free health care system allows to provide all population categories with medical services, which has a positive effect on the health of population, and leads to increasing life expectancy, reducing death rate and the number of patients. At the same time, such system strongly

depends on the economic situation in the state and the lack of financial resources doesn't allow to accomplish stated goals and provide the population with high-quality medical services on a full scale. On the other hand, in Ukraine there is an inefficient use of already allocated funds, which has a negative influence on the achievement of main purposes of health care: decreasing death rate, increasing life expectancy, reducing the number of diseases, and improving the health of the nation.

Analysis of the latest studies and publications

A great number of research publications in the national science deal with the issue of health care system financing in Ukraine, namely, the following research papers can be mentioned: Honcharova and Vodnytska, (2006); Dluhopolskyi, (2011); Komarova, (2010); Livak, (2011); Mokrytska, (2011); Tropina, (2008); Chupryna and Yarotska, (2011). In their research, the scientists studied specific aspects of the formation and using financial resources in the health care system, defined the range of problems of their inefficient use, substantiated the main directions as to solving the defined problems. Special attention is paid to the role of the state and the need to reform state financial provision of health care.

Foreign scientists dealt with theoretical and practical aspects of funding health care system in their research: Fujii, (2018); Grigorakis et al., (2018); McIsaac et al., (2018); Zhu et al., (2017); Whyte & Olivier (2016); Ataguba, (2016); Cammett et al., (2015); Liaropoulos & Goranitis, (2015); Omer & Ali, (2014); Fan & Savedoff, (2014). It is necessary to mention that the research of foreign scientists covers a wide range of issues related to the financing health care system from conceptual principles of formation and use of financial resources to the evaluation of the financing some elements of health care, for example, financing programs on the fight against AIDS (Zeng et al., (2014)).

At the same time, we should highlight the research by Evans et al. (2000) and Preker et al.(2002), who carried out a comparative evaluation of the efficiency of health care financing in different countries throughout the world using econometric methods.

It should be noted that despite a great number of publications covering the above-mentioned issues, the issue as to the defining the efficiency of health financing in Ukraine remains understudied taking into account the main purposes of health care.

The Purpose of the Article

The main task of the present research is to evaluate the health care system financing compared to the other countries around the world in order to determine the efficiency of using financial resources, taking into account the achievement of the main aims of the health care system.

Materials and Methods

Information database of the present research was statistic and analytical data of the World Health Organization (<http://www.who.int/countries/ru/>). The research is based on the data from 185 countries over the periods from 2011, 2013, 2014 (the latest available data). To achieve the stated goal general scientific methods were used, as well as methods for studying economic phenomena. In particular, the method of analytical cognition was used to analyze national and foreign scientific research on the issues of health financing.

Empirical method was applied to evaluate the current financial provision of the health care system in Ukraine. In particular, the following economic and mathematical research methods were used:

- correlation and regression analysis was used to analyze the influence of total expenditures in the world on health care per person per average life expectancy at birth (table 1). The results of the evaluation are presented in figure 2;

- analytical grouping was applied to divide countries into the groups according to the dependence between average means of GDP per capita and life expectancy;
- methods suggested by Preker et al.(2002) were used to calculate financial resources deficit of the health care system of Ukraine.

Tabular and graph methods were used to systemize and visualize numerical data. Abstract-logical approach enables to generalize the results of the research and make conclusions.

Results

Over the recent years, there has been an annual increase in the expenditures on the health care in Ukraine. Nevertheless, the national health care system is now experiencing stagnation, when there is enough money only for maintaining its existence. Extensive network of medical institutions of all levels requires a considerable public financing. Therefore, under the lack of effective measures as to the reformation of the existing network of medical institutions and weak development of insurance medicine, there has been gradual degradation of the health care system in Ukraine over recent two decades despite increasing state expenditures (fig.1).

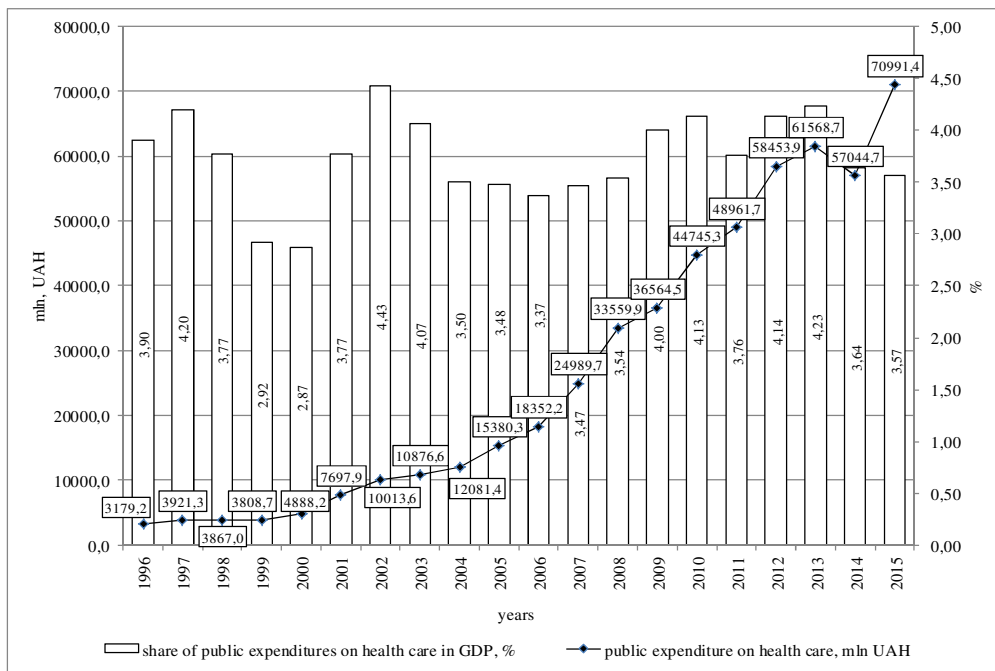


Fig 1: Dynamics of the public expenditures on health care and their share in the GDP of Ukraine

[Source: the data of the State Treasury of Ukraine; (<http://www.treasury.gov.ua/main/uk/publish/category/23593>); the data of Budget Monitoring “Analysis of executing the budget over 20_” of the Institute of the Budget and Social-Economic Research (<http://www.ibser.org.ua/news/558/>) (calculated and proposed by the authors)].

Over the analyzed period the size of state expenditures (including state firms) on the health care increased from 3179.2 mln UAH in 1996 to 70991.4 mln UAH in 2015 or 22.3 times. However, neither absolute nor relative indexes of budgetary funding of health care don't meet the norms established by the international standards. For example, the World Health Organization (WHO) recommends spending public funds in the size no less than 6% of GDP on health care, while this

index in Ukraine over the analyzed period makes up about 4% and total expenditures on health care made up 7.8% of GDP in 2015.

Whereas the share of expenditures on social security in the GDP of Ukraine has an increasing tendency, the share of expenditures on health care remains practically unchanged and in some years it even decreases. It indicates a certain allocation of the priorities to the benefit of some types of social protection in the country which is negative from the point of the overall and harmonious development in all its components. It is necessary to mention that any normative parameters as to the volumes or the share of financial resources directed into health care, in GDP, are quite relative and can't serve as an unambiguous evaluation of financing. For instance, even in the countries that are considered to be developed and that spend over 10% of GDP on their health care (the USA, Germany, Switzerland etc.), this money isn't enough to meet all existing needs. At the same time, some poorest countries spend on their health care about 10% of GDP, but they have life expectancy which is sufficiently lower than in Ukraine (Burundi spends 8.52% of GDP and has life expectancy of 53 years; correspondingly, Zimbabwe – 9.39% of GDP – 54 years; Lesotho – 10.68% of GDP – 49.5 years etc.).

Dependence of Ukrainian medical institutions on charitable contributions of the population and considerable expenditures on purchasing medication and medical services show that health care system is unable to provide a proper level of medical service at the cost of public money. In Ukraine direct expenditures of households exceed 49%, which is considerably higher than in developed countries (in Great Britain – 11.9%, in Denmark – 14.9%, in the Netherlands – 7.7%, in the Check Republic – 10.9% etc.) [Dluhopolskyi, (2011)]. It means that the state covers relatively small share of expenditures on health care at the cost of its sources despite its commitment to provide equal access to medicine.

In 2014 according to the level of total expenditures on health care per one person (in the US dollars, PPP based) Ukraine was on the 103^d place (in 2011 – on the 89th, in 2013 – on the 94th) among 185 countries (which were compared), and according to the life expectancy it ranked 109th (in 2011 – 108th, and in 2013 – 111th). It is an alert signal of a critical state of the health funding in Ukraine because there is a close correlation between these two parameters, which is confirmed by the conducted correlation and regression analysis (table 1).

Table 1: The results of correlation and regression analysis of the influence of total expenditures in the world on the health care per capita on the average life duration at birth

Parameter value:	Model description:
correlation coefficient – 0.6811	the strength of relationship is moderate
determinant coefficient – 0.4638	function variability is by 41.17% defined by the variability of chosen factors
Fisher's test: $F_f = 158.3095$; $F_c = 3.892776$	$F_f > F_c$, the null hypothesis about the absence of relationship among indexes is rejected – the model is adequate to reality
Student's test: $t_f = 8.01306$; $t_c = 1.973012$	$t_f > t_c$, the null hypothesis about insignificance of regression coefficient is rejected – it is statistically significant
Durbin-Watson test: $DW = 1.9744$	Autocorrelation is absent, if $1.5 < DW < 2.5$. Y : In our case $1.5 < 1.9744 < 2.5$
Regression equation: $Y = 67.11 + 0.00344X_1$	

[Source: the data of the World Health Organization <http://www.who.int/countries/ru/> (calculated and proposed by the authors)].

Calculations were made using the indexes of 185 countries worldwide. Y is an average life expectancy at birth, years; X_1 is total expenditures on the health care per capita, in US dollars per capita based on PPP. The results of correlation and regression analysis show that under the change of the total expenditures on health care by 1000 USA dollars (PPP based), the average life expectancy at birth will increase by 3.44 times. Coefficient of correlation 0.6811 and coefficient of determination 0.4638 show that life expectancy also depends on other factors, therefore the increase in health care expenditures alone can't be a decisive factor. This argument is proved by the dynamics of correlation among analyzed indexes in figure 2.

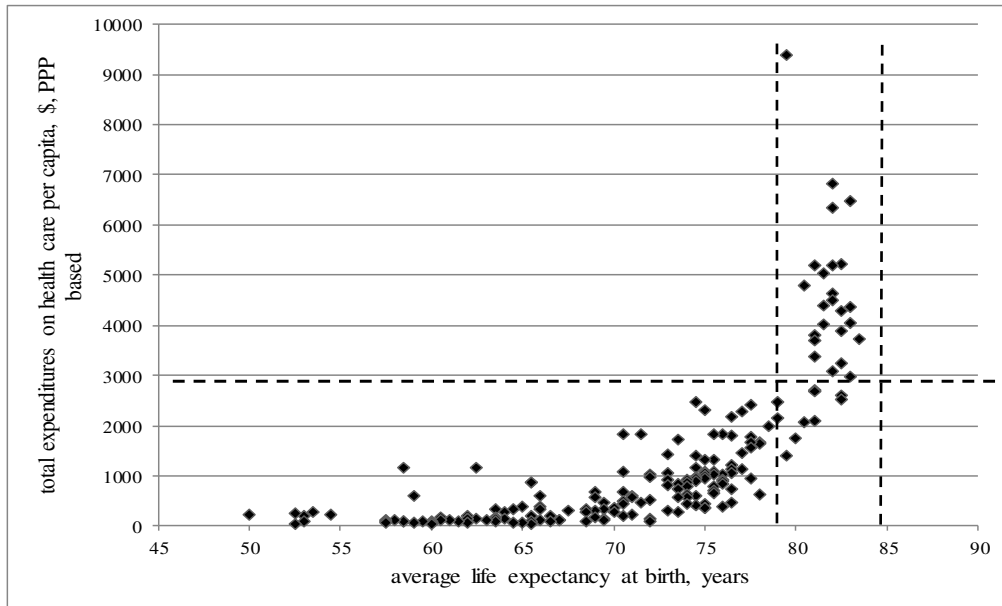


Fig 2: Dependence of the average life expectancy at birth on the total expenditures on health care per capita in 2014 (185 countries were analyzed)

[Source: The data of the World Health Organization <http://www.who.int/countries/ru/>] (calculated and proposed by the authors)].

Obtained results show that the increase of total expenditures on health care per capita has a positive influence on the life expectancy when index amounts to about 2 500 – 3000 US dollars per capita, PPP based. Further increase in spending has a minor influence. Many countries in Western Europe, the USA, Canada, Japan have actually achieved a possible level of social health, mainly through limited biological abilities of a human body.

That is why, a current state of financial provision of health care in the developed countries worldwide is characterized by the fact that financial resources are spent at steadily increasing rates, while returns – at steadily decreasing rates. Thus, we can state that in this case we deal with the law of diminishing returns. Scientists relate the problem of decreasing efficiency in financing health care with the concept of entropy and innovative development [Sheiman, (2009)].

Further increase in spending without revolutionary achievements in medicine doesn't allow to achieve the index of average life expectancy over 85 years. This notwithstanding, the threshold level of average life expectancy under equal expenditures is different in different countries. This enables us to make the conclusion that the life expectancy is influenced by other factors, that have economic as well as social, cultural and demographic character. One of the most important factors influencing the level of health as well as life expectancy is the level of welfare of citizens. This index is, in fact, accumulative and determines to a certain extent the way of life, nutrition, education, access to the

system of health care etc.

According to the research, the increase in GDP by 1000 USA dollars per capita increases average life expectancy by 0.5 year and the increase in the income of citizens by 1000 dollars makes the life expectancy 1 year longer (the World Health Organization)

To confirm this argument we carried out analytical grouping and further correlation-regression analysis in order to reveal the regularities among these indexes (table 2).

Table 2: The results of analytical grouping of the countries according to the dependence between mean values of GDP per capita and life expectancy (2014)

No	Countries with GDP per capita in \$, PPP based	The number of countries in the group	Mean value of GDP per capita in \$, PPP based	Average life expectancy at birth, years
1	to 12037.34	97	5027.19	66.55
2	12037.34 – 23467.51	38	17145.64	74.33
3	23467.51 – 34897.68	22	28131.9	76.50
4	34897.68 – 46327.85	14	40777.83	81.50
5	46327.85 – 57758.02	7	51128.07	79.79
6	57758.02 – 69188.19	3	63167.78	80.83
7	69188.19 – 80618.36	2	72126.65	76.25
8	80618.36 and more	2	87405.35	82.50
	total	185		

[Source: Data of the World Health Organization <http://www.who.int/countries/ru/>) (calculated and proposed by the authors)].

According to the data presented in table 1, about 52.4% countries (including Ukraine) belong to the first group of countries with the lowest indexes of average life expectancy. The dynamics of the indexes suggests that life expectancy increases with the increase of GDP per capita. However, this increase encloses four groups, after which the increase of living standard minimally influences the increase of life expectancy. In the light of this we can come to the conclusion that any changes as to the improving the state of health care in Ukraine as well as its financing are impossible without improving the economic situation in the country. At the same time, we should be aware that a rapid economic growth under current crisis is impossible in the national as well as in the world economic system. Therefore, according to the authors' point of view, attention should be focused on the improving the efficiency of allocation and usage of available financial resources as well as on the search of new alternative sources of health financing within the budget system and beyond it.

Nowadays Ukraine is even ahead of developed countries according to the quantitative indexes that characterize the state of health care. For example, in 2015 Ukraine had 4.19 hospitals per 100,000 of population. In EU countries the mean value of this index makes up about 3.1 per 100,000 of population. Moreover, in Ukraine the population and hospital bed ratio was 100,000 to 781 while in EU countries this ratio makes up 100,000 538.2 hospital beds. As to the medical staff in Ukraine, 437 doctors and 873 paramedical staff provide medical services for 100,000 of the population compared to 292 doctors and 750 paramedical staff in the EU countries [EUROSTAT]. At the same time, such an extensive system of medical institutions requires a considerable amount of financial resources to perform their activity. As the increase of public expenditures on health care, observed during the whole analyzed period, in some years doesn't even cover the price factor, the efficiency of the system remains in general at the low level.

Therefore, there is a considerable shortage of financial resources in the health care system, and it is important to detect its actual size. In the world economic science, there are different methods for determining the minimal level of funding, as well as the volumes of financial resources deficit and the efficiency of their use that are applied by the WHO [Evans et al., (2000)]. One of these methods is the method of production-possibility curve. The WHO used this method for ranking the systems of health care in different countries according to the efficiency based on the dependence of health care spending and 3 criteria: fairness of allocation of financial load, satisfaction of patients and health outcomes. Commission on macroeconomics and health evaluated the global deficit of health care funding using this method [Suhrcke et al., (2007)]. Calculation methodology, developed by Preker et al., (2002) was taken as the basis.

Unlike the mentioned authors we used three indexes to calculate the deficit of financial resources of health care system in Ukraine: probable death rate of women at the age of 15-60 (per 1000 persons), probable death rate of men at the age of 15-60 (per 1000 persons) and death rate of children under the age of 5 (per 1000 persons). All indexes, used for calculations, were taken from the data of the WHO over the period of 2014.

Six groups of countries according to the GDP level per capita were analyzed (the results of analytical grouping were used (table 2): 1) countries with GDP per capita to 12037.34 \$ based on PPP (n = 97); countries with GDP per capita 34897.68 \$ based on PPP (n = 157); 3) countries with GDP per capita to 34897.68 \$ based on PPP (n = 157); 4) countries with GDP per capita to 46327.85 \$ based on PPP (n = 171); countries with GDP per capita to 57758.02 \$ based on PPP (n = 178); 6) countries in GDP per capita to 92048.55 \$ based on PPP (n = 185).

20% of “model” countries, that is countries with the best indexes in each chosen criterion, were taken from each sample. Production-possibility curve was calculated for each index in each group of “model” countries. The curve is based on the dependence between expenditures per capita on the health care and GDP. Exponential curve was used for calculations (Fig 2).

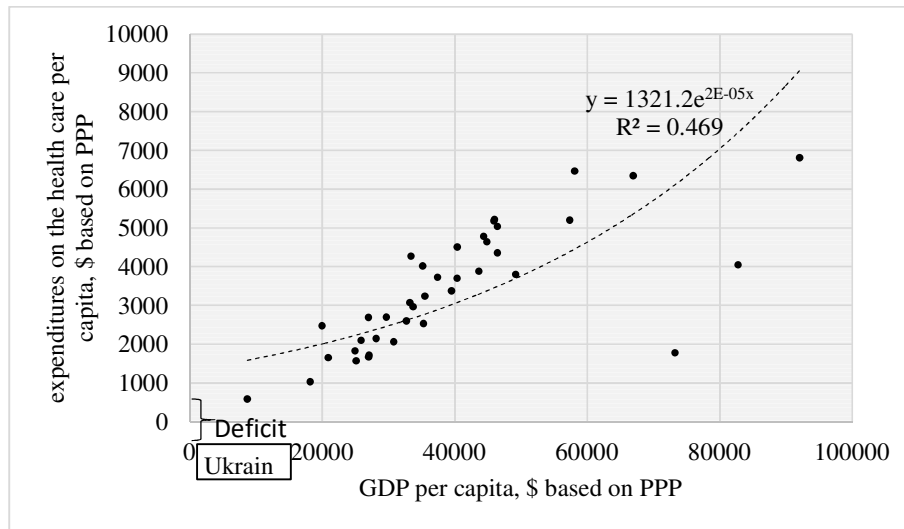


Fig 2: production-possibility curve for the countries with the GDP per capita up to 92048.55 \$ based on PPP, defined by probable under-five death rate of children (per 1000 persons), 2014

Note: production-possibility curve – regression line, obtained on the basis of 20% of the countries with the lowest death rate index (among the countries of the group). Black square is Ukraine.

[Source: The data of the World Health Organization <http://www.who.int/countries/ru/>) (calculated and proposed by the authors)].

The deficit of financing health care (on a per capita basis) in Ukraine is equal the distance in vertical direction between possibility curve and the coordinates of Ukraine along the axis of expenditures on health care. In case when the point is on the line or higher, the deficit is equal to zero. It is necessary to mention that essential excess of expenditures on health care compared to the “model” countries suggests that it is necessary to improve the efficiency of using financial resources, because other countries achieve better results with less spending. Calculations that show possibility curves for the analyzed groups are available at http://www.iae.org.ua/images/iae/vchena_rada_02/2017/2017.10.11_malovanyi_dis.pdf (appendix B25, p. 543-551).

The results of the conducted research are presented in table 3. As it can be seen from the obtained results (table3), the deficit of funding health care in Ukraine in all criteria begins in the group of the countries with the GDP per capita up to 23467.51 \$, based on PPP. In order to achieve the indexes of developed countries Ukraine should additionally spend up to 43.4 bln US dollars based on PPP per year, or 251.72 bln UHA. The authors conducted a similar research of the data over the period from 2011 to 2013. According to the calculations it has been found that Ukraine should have spent additionally up to 36.2 bln US dollars based on PPP per year in 2011, or 137.56 bln UAH [Malyovanyi, (2013)], and in 2013 – up to 45.1 bln US dollars based on PPP per year or 144.77 UAH [Malyovanyi, (2016)]. Thus, the situation in financing health care over the analyzed period considerably worsened compared to the quantitative and qualitative indexes of the other countries around the world.

Table 2: Shortfall in funding health care in Ukraine (in \$, PPP based) in different groups of countries (2014)

Countries with GDP per capita (\$, PPP based)	Probable death rate of children under five (per 1000 persons)		Probable death rate of women at the age of 15-60 (per 1000 persons)		Probable death rate of men at the age of 15-60 (per 1000persons)	
	per capita \$, PPP based	total deficit mln \$, PPP based	per capita \$, PPP based	total deficit \$, in PPP based	per capita \$, PPP based	total deficit mln \$, PPP based
to 12037.34	-	-	-	-	-	-
to 23467.51	-	-	6	258.01	-	-
to 34897.68	206	8858.21	16	688.02	-	-
to 46327.85	156	6708.23	216	9288.22	176	7568.18
to 57758.02	266	11438.27	376	16168.38	276	11868.28
to 92048.55	966	41538.96	1016	43688.00	916	39388.92

[Source: The data of the World Health Organization <http://www.who.int/countries/ru/>] (calculated and proposed by the authors)].

As the result of the shortfall in financial resources, despite a considerable quantity of medical institutions, doctors and paramedical staff, the indexes that characterize the state of health care in Ukraine are quite low compared to the developed countries around the world. The indexes, characterizing the level of morbidity rate, are of special concern. The reasons for such a critical state of the health care system are: firstly, insufficient funding of medical institutions, secondly, inefficient use of already available resources. To our persuasion, nowadays, one of the main reasons of the crisis phenomena in the Ukrainian health care is not the deficit in financial resources as much as it is their inefficient usage. This is confirmed by the experience of other countries, where even under lower expenditures on health care the higher indexes are achieved, that characterize its quality (death rate, birth rate, morbidity rate, etc.).

As the result of the analysis of the WHO (2000) the authors singled out 10 main reasons for inefficient use of financial resources in the health care system of Ukraine (figure 3).



Fig 3: Reasons of inefficient use of financial resources in the health care system of Ukraine

[Source: the data of the World Health Organization <http://www.who.int/countries/ru/>) (proposed by the authors)].

Using the methodology developed by the experts of the WHO (2000) we calculated a potential cost-cutting in the system of the health care in Ukraine. For this purpose we multiply the average levels of inefficiency by the average share of the total expenditures on health care system, related to each component.

The calculations suggested that Ukraine could save 18.3-37% annually of all state expenditures on health care by improving economic efficiency of hospitals or staff, revealing resources in order to provide a potential expanding of protection against financial risks for a greater number of people or increasing the number of available services. It is an approximate estimate based on relatively scarce data, but it shows that there are considerable accomplishments that can be achieved in case the efficiency in the researched components is improved.

Conclusions

The research of financing health care system in Ukraine enabled us to make the following conclusions:

1. According to the conducted research financial resources in the system of health care in Ukraine are used inefficiently even compared with poor countries around the world taking into account the achieved probability indexes of the death rate of children under-five and men and women at the age of 15-60.

2. It has been found that shortfall in funding health care in Ukraine in all criteria begins in the group of the countries with GDP per capita in the size of 23467.51\$ (PPP). To achieve the indexes of developed countries Ukraine should additionally spend up to 43.4 billion US dollars based on PPP annually or 251.72 billion UAH. Thus, potential cost-cutting can be quite considerable which allows, for example, for Ukraine to decrease the deficit of financial resources from 13.0 to 26.1 billion UAH.

3. Global experience and conducted analysis allow us to suggest the solution of the problem of the shortfall in financing health care through the development of the following priority directions:

- 1) modernization of a primary healthcare, especially its outpatient-polyclinic level;
- 2) simplifying the mechanisms of funding with the reduction of financial flows into the branch: transition to the principles of one-channel financing and formation of full tariff for medical services on its basis;
- 3) maximum use of economic and administrative methods, aimed at improving the performance efficiency of all system participants. The level of remuneration of labor of medical staff should be singled out as one of the components;
- 4) improving the transparency of public purchases and tender procedures. Improving the monitoring and control over the level of prices of medication;
- 5) removing inequality in the volume, quality and availability of medical care for different population categories;
- 6) improving standards of medical care in hospitals with obligatory monitoring of their performance results;
- 7) regular evaluation of the cost of medical programs taking into account their efficiency depending on the achieved results and stated goals.

Each of the suggested directions can't be separated from the others. Therefore, their combination, that should be accompanied by the joint action of the state and market mechanisms of regulation, will promote the improvement of the health care financing as well as the quality of medical care in general.

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