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## NEWS

OF THE NATIONAL ACADEMY OF SCIENCES  
OF THE REPUBLIC OF KAZAKHSTAN  
of the Institute of Plant Biology and Biotechnology

**БИОЛОГИЯ ЖӘНЕ МЕДИЦИНА  
СЕРИЯСЫ**



**СЕРИЯ**

**БИОЛОГИЧЕСКАЯ И МЕДИЦИНСКАЯ**



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**ANALYSIS OF THE RESULTS OF SOCIOLOGICAL SURVEY  
OF THE PATIENTS OF DAY PATIENT DEPARTMENTS  
OF MEDICAL ORGANIZATIONS IN ALMATY (KAZAKHSTAN)**

**Abstract.** This work provides and shows the dynamics of development of hospital-replacing forms of medical care and makes estimations in accordance with the methods, generally accepted in medical statistics.

**Key words:** hospital-replacing medical care (HRC), day hospital (DH), hospitalization replacement technologies.

**Introduction.** Modern requirements to the implementation of national health programs require the application of resource-saving technologies new to national health care system, that allow to reduce the expenditures for unreasonable hospitalization, to rationally use costly bed space in hospitals and improve patients' quality of life [1-5].

To explore key organizational, financial and clinical issues of the delivery of hospital-replacing medical care (HRC) to population at the level of outpatient sector and to determine the main directions of their solution, complex social-hygienic research was performed [6-12].

Aims of investigation: evaluation of development of HRT in Almaty, Kazakhstan.

The object of investigation - day hospitals.

**Materials and methods of investigation.** A cross-sectional, full-design study was performed in day hospital (DH) of 3 outpatient institutions (OI) of Almaty in patients above 18.

Outpatient institutions with day patient departments with maximum number of DH beds were selected as subject to density of the assigned population.

Total number of respondents, selected randomly, who participated in questionnaire - 1670.

According to the stated goals and tasks we carried out the sampling of medical organizations according to the criteria of inclusion and exclusion from the study.

Inclusion criteria - patients undergoing DH treatment, recently discharged from DH, receiving outpatient aftercare.

**The results of research and discussion.** Study of respondents' choice of the most convenient forms of medical care showed that 65.9±1.2 (Figure 1), of respondents treated in day hospital under outpatient institutions preferred treatment in day hospital, 56% of them are working-age population aged «18-59».

Results of analysis of respondents' satisfaction with hospital-replacing medical care quality showed that out of 56.9±1.2% (Figure 2) satisfied respondents 51.5±1.2% noted improved quality of care, while out of 43.1±1.2% «not fully» satisfied respondents 29.9±1.1% also noted the improvement in quality of medical care, but 19.8±1.2% respondents expected date of planned hospitalization in day hospital over a month (1-6 month) ( $p<0.0001$ ) (Figure 3).

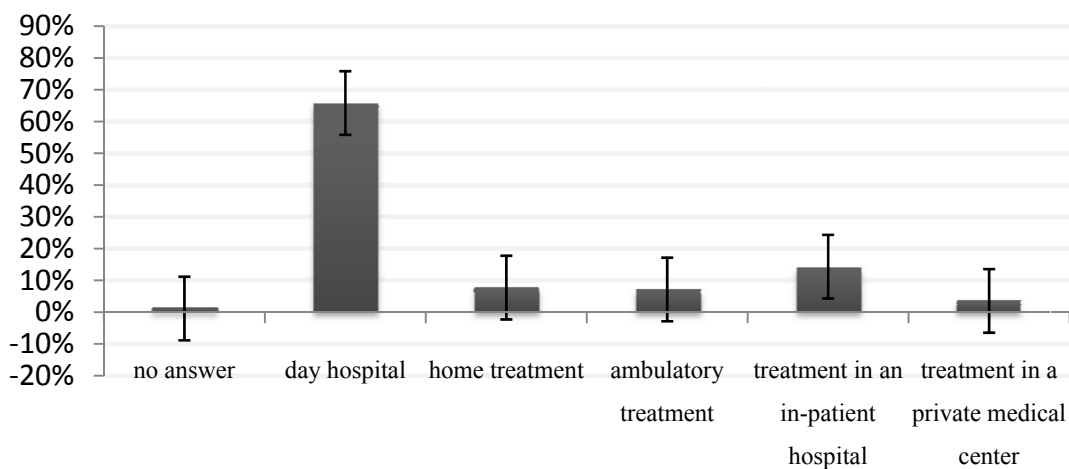


Figure 1 – Choice of respondents' of the most convenient forms of medical care

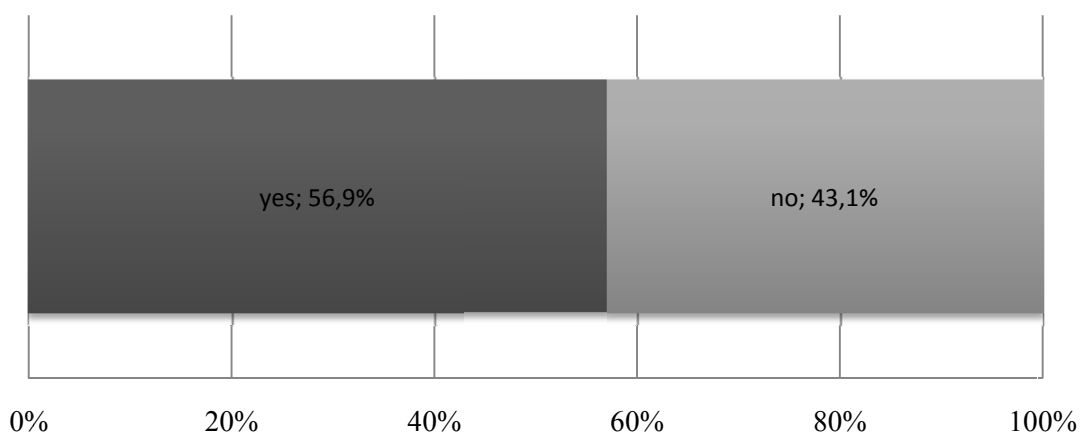


Figure 2 – Satisfaction of respondents' with hospital-replacing medical care quality

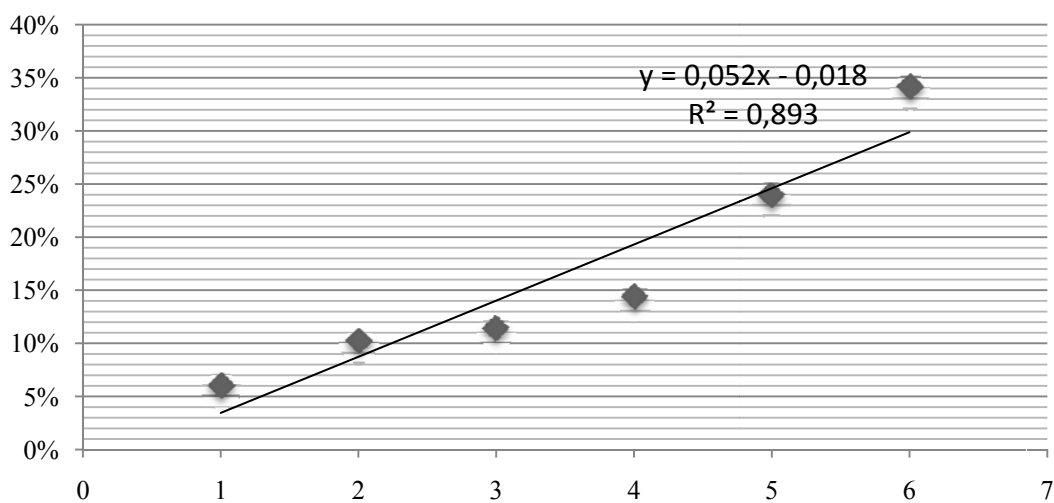


Figure 3 –Expected date of planned hospitalization in day hospital

To assess mutual influence of factors on level of respondents' satisfaction with hospital-replacing medical care quality, linear regression analysis of interrelation was conducted.

Patients' satisfaction with quality of HRC was correlated with expenditures for medicine during the treatment in day hospital ( $F_{кр} = 6.268$ ).

During treatment 29.34% spent more than 5000 tenge for medication, about 20% - up to 5000 tenge.

Linear regression analysis

Predictors (X) (M, SD)	b=	a=	R <sup>2</sup> =	F <sub>obs</sub> =	R <sup>2</sup> ,%	95%CI
Expenditures for medicine during the treatment in DH M=1.46 SD=0.49	1.79	-0.25	0.061	6.268	6.1	1.44-1.49

65.87% of respondents are ready to recommend day hospital to their relatives, friends and acquaintances. Frequency of respondents' medical resource utilization has a statistically significant correlation with reasons of the respondents' non-utilization of outpatient service  $p < 0.0001$ , and with respondents' recommendations of day hospital to their relatives  $p = 0.0016$ .

**Conclusions.** Formation of a sense of trust in a patient in the specialist and treatment in DH, and generally in the clinic, is an important sign of the successful and effective organization of medical care and a financial success of health care system.

Contributory factors of hospital replacing medical care that influence the patients' satisfaction level were determined.

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**АЛМАТЫ ҚАЛАСЫНЫҢ МЕДИЦИНАЛЫҚ ҰЙЫМДАРЫНЫҢ  
КҮНДІЗГІ СТАЦИОНАРЛАРДАҒЫ ЖҮРГІЗІЛГЕН СОЦИОЛОГИЯЛЫҚ  
ЗЕРТТЕУДІҢ НӘТИЖЕЛЕРІН ТАЛДАУ (ҚАЗАҚСТАН)**

**Аннотация.** Мақалада медициналық көмектің стационарды алмастыру түрінің даму динамикасы көрсетілген. Медициналық статистиканың жалпылай қабылданған әдістемелеріне сай көрсеткіштердің есебі берілген.

**Түйін сөздер:** стационарды алмастыратын медициналық көмек, күндізгі стационар, стационарды алмастыратын технологиялар.

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**АНАЛИЗ РЕЗУЛЬТАТОВ СОЦИОЛОГИЧЕСКОГО ИССЛЕДОВАНИЯ ПАЦИЕНТОВ  
ДНЕВНОГО СТАЦИОНАРА МЕДИЦИНСКИХ ОРГАНИЗАЦИЙ ГОРОДА АЛМАТЫ  
(КАЗАХСТАН)**

**Аннотация.** В работе показана динамика развития стационарозамещающих форм медицинской помощи. Проведены расчеты показателей в соответствии с общепринятыми в медицинской статистике методами.

**Ключевые слова:** стационарозамещающая медицинская помощь, дневной стационар, стационарозамещающие технологии (СЗТ).



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