Organizational Aspects of Hemodialysis Care to the Population in Uzbekistan

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Abstract

The article is devoted to the study of organizational aspects of hemodialysis care for the population of Uzbekistan. The survey was conducted among the heads of medical institutions in all regions of the country, including chief physicians, reserves of main departments, family polyclinics and others.

1. Relevance.

The problem of providing the population with kidney replacement therapy is one of the key issues in the modern healthcare system. The quality of medical care in general depends on its solution. Every tenth person in the world suffers from kidney diseases, among them-those who are vital to take 3-4 sessions of hemodialysis per week for life. In recent years, there have been positive trends in the activity of the national kidney replacement therapy service, but these changes are clearly insufficient to adequately cover the needs of the population [1,22].

Objective: To study the organizational aspects of hemodialysis care for the population in Uzbekistan, to assess the factors affecting the state, functioning and development of the hemodialysis service.

Materials and methods of research. The paper uses modern methods of socio-hygienic research: statistical, sociological, epidemiological, direct observation (monographic) and economic. In addition, regulatory documents of the Government of the Republic of Uzbekistan, the Ministry of Health of Uzbekistan, and reporting statistical

materials of medical and preventive institutions were studied.

Results and discussion. According to the Ministry of Health for 2019, 3,064 patients with CRF receive hemodialysis. Over the past 25 years, the number of patients with CKD has increased by By9 2019, there are 49 hemodialysis 135%. centers in Uzbekistan, of which 8 are located in the city of Tashkent. In 2019, the availability of renal replacement therapy (RRT) was 231.7 patients per million of the population. All patients are provided with free dialysis, all necessary medicines, supplies, periodic laboratory tests, as well as consultations with various specialists. The average age of patients is 19.6-43.7 years, men predominate -51.4%. Currently, there are a total of 116 artificial kidney devices operating in the city of Tashkent. To date, 76 kidney transplantations have been performed in the Republic. The number of patients with CKD is 102,969, of which 53 are under 18 years of age. Of theseзарегистрированых 20, 20,414 are registered.

To date, 436 transplant patients are registered at the dispensary and all are provided with immunosuppressive treatment. Statistical processing of indicators over the past 5 years has

shown that the annual increase in dialysis patients is 21.7-23.6%. It should be noted that today in the provision of patients with software

There are no problems with hemodialysis in the republic, and the existing dialysis facilities are sufficient to receive new patients, as new dialysis centers are opened in the republic every year under the state program.

As a result of the conducted studies, it was established that the approximate number of patients with CRF (per 1 million inhabitants) in 2017-2019 was 147.6; 160.5; 233.7 people. At the same time, the number of first-time hospitalizations for DH treatment for the year was 22,6 - 21,3 - 26 people per 1 million of the population. The total number of hemodialysis sessions was 645 - 565,1 - 607,1 per place per year (from 257 to 778, depending on the department). Availability of hemodialysis treatment in 2017-2019 in the republic was as follows: 80,3 - 82,1 - 89,5 a person, respectively. In the population of patients at the end of the year, these indicators

were 57,9 - 65,8 - 76,3 a person. Population growth at the end of the year is due to a decrease in patient mortality - 11,8 - 10,9 - 9,1 accordingly (in developed countries, the average figure for 2017 was 10.53%); with an increase in the life expectancy of patients - the five-year survival rate in the group of hemodialysis patients for 2017-2019 was - 10,1 - 14,1 - 21,5 accordingly.

Knowledge of the epidemiological characteristics of CRF in the republic makes it possible to determine the need to introduce hemodialysis techniques for patients with chronic renal failure. To analyze the state of the dialectical service in the Republic ofами Komi, a sociological survey was conducted among the heads of medical institutions who are on advanced training courses. 89 heads of medical institutions and representatives of various regions of Uzbekistan participated in the survey. Of the participants, 43 (48.3%) are chief physicians, 21 (23.6) are reserves of management personnel, and 25 (28.1%) are heads of departments of the family polyclinic SSPΠ (Figure 1).. and

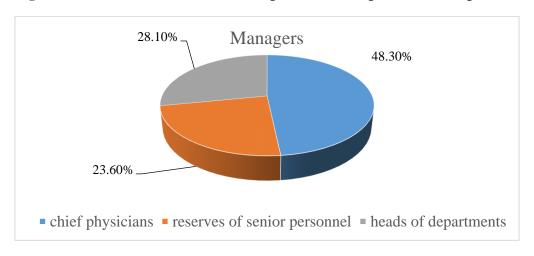
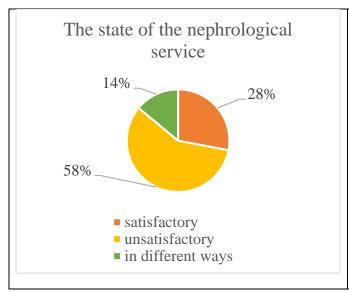


Figure 1. Structure of medical institution managers who are taking advanced training courses

According to chief medical officers, the healthcare sector in our region has experienced significant changes over the past 3 years (54%), and 46% said that there are minor changes. The majority of respondents assess the state of nephrological medical care in Uzbekistan as unsatisfactory

(67%). They believe that hemodialysis is not available equally for all categories of patients who need this help. Reserves of managers and heads of departments of SP, SVP also assess the state of nephrological medical care in the republic as unsatisfactory (58%) (Figure 2)..



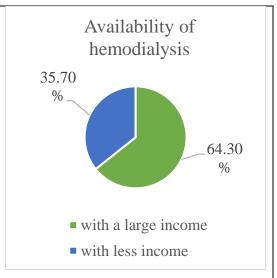
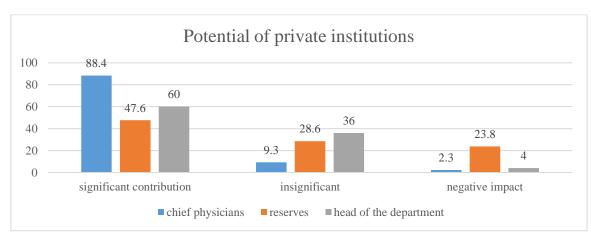


Figure 2. Assessment of the state of nephrological medical care in the Republic

Private institutions are of great importance in improving the availability and quality of care for patients in need of hemodialysis. According to respondents, private medical institutions can make a significant contribution to improving the availability and quality of medical care (Figure 3).

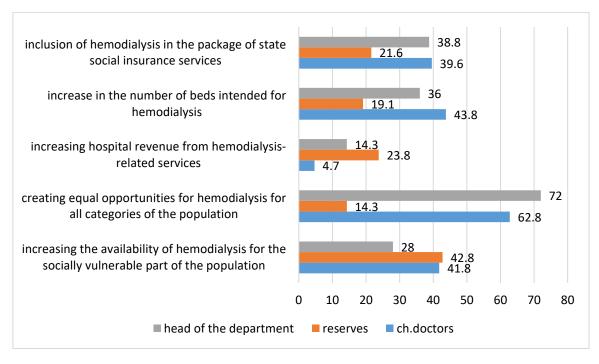
Figure 3. The potential of private institutions to improve the availability and quality of medical care for patients in need of hemodialysis



As can be seen from the diagram, the majority of managers of institutions (85.2%) positively assessed the potential of private institutions in improving the availability and quality of care for patients in need of hemodialysis.

According to the questionnaire, we received answers to some types of activities that are most important in the development of the hemodialysis service in Uzbekistan. At the same time, we were offered a choice of responses to the necessary measures given in the questionnaire (Fig. 4).

Figure 4. Organizational maspects of the development of the hemodialysis service



The figures show that, according to the heads of medical institutions, the most important issues in the organization of hemodialysis services in the republic are increasing the availability of hemodialysis for socially vulnerable parts of the population, including hemodialysis in the mandatory state insurance package, as well as creating equal opportunities for receiving hemodialysis for all categories of the population.

2. Conclusions:

The quality of medical care in Uzbekistan during hemodialysis is in an unsatisfactory state. The most important issues in the organization of hemodialysis services in the republic are increasing the availability of hemodialysis for socially vulnerable parts of the population, providing hemodialysis in the package of state health insurance services, as well as creating equal opportunities for receiving hemodialysis for all categories of the population.

References:

 Resolution of the President of the Republic of Uzbekistan "On measures to improve the efficiency of providing nephrological and hemodialysis care to the population of the

- Republic of Uzbekistan" dated July 12, 2018 No. PP-3846
- 2. Nizamov I. G., Mukhametzyanov I. Sh. Organizational aspects of creating a register of patients with renal insufficiency// Problems of social hygiene, health care and history of medicine. 2000, No. 4, pp. 28-32.
- Asadov P..Kh., Iskandarova Sh. T., Jalilova G. A. / Improvement of hemodialysis care in the Republic of Uzbekistan, Pediatrics, No.3, 2022, pp. 11-15.
- 4. Jalilova G. A., Mukhamedova N. S., Rasulova N. F., Asadov R. H. State of hemodialysis services in the Republic of Uzbekistan. Scientific and practical journal "Vestnik TMA". Tashkent, 2021; 3:204-205.
- Jalilova G. A., Rasulova N. F., Asadov R. H. Scientific and practical journal "Bulletin of the Tashkent Medical Academy". Tashkent, 2021; 3:204-205.
- Asadov R. Kh. Daminov B. T., Iskandarova Sh. T. Scientific and practical journal "Pediatrics" Tashkent, 2021; 2:125-128.-128.

- 7. Мухамедова, Н. С., Расулова, Н. Ф., Эшдавлатов, Б. М., & Мамедова, Г. Б. (2014). Анализ и совершенствование существующих методов мотивации в медицинских учреждениях. *Молодой ученый*, (3), 213-215.
- 8. Nazarova, S. K., Jalilova, G. A., Mukhamedova, N. S., & Rasulova, N. F. (2021). Features of distance learning organization. *Annals of the Romanian Society for Cell Biology*, 339-347.
- 9. Расулова, Н. Ф., Акрамова, Л. Ю., & Рахимова, Д. У. (2017). Таксономия учебных целей Блума в 21 веке. *Теория и практика современной науки*, (1), 828-832.
- 10. Расулова, Н. Ф. (2016). Совершенствование методов этического воспитания медицинских сестёр лечебнопрофилактических учреждений. *Молодой ученый*, (7), 409-412.
- 11. Усманов, И. А., Джалилова, Г. А., & Расулова, Н. Ф. (2016). К вопросу охраны водных объектов бассейна Амударьи на примере Кашкадарьинской области. Вестник науки и образования, (2 (14)), 95-98.
- 12. Искандарова, Ш. Т., Расулова, Н. Ф., Хасанова, М. И., & Юсупалиева, К. Б. (2019). Современные проблемы гигиены почвы в условиях Узбекистана почвы в условиях Узбекистана Ташкент:" Фан".
- 13. Мирзаева, М. А., & Расулова, Н. Ф. (2014). Компьютеризация рабочего места медицинских сестер стационара. Сборник статей и тезисов, 2014 г. Посвященный" Году Здорового ребенка", 2014 г. 15 ноябрь, г. Ургенч, (208), 209.
- 14. Расулова, Н. Ф. (2011). Ўзбекистонда педиатриянинг ривожланиш тарихи.
- 15. Курбанова, Ш. И., Самигова, Н. Р., & Ордабаева, А. С. (2016). Значение изучения состояния зрительного анализатора как возможного профессионального риска для здоровья преподавателей начальных классов общеобразовательных школ. Молодой ученый, (2), 355-357.
- 16. Самигова, Н. Р. (2017). Изучение показателей теплового состояния организма работников «Махсустранс» в теплый период года. *Молодой ученый*, (1), 40.

- 17. Искандарова, Г., Самигова, Н., & Палимбетов, А. (2021). Гигиеническая оценка воздуха рабочей зоны цементного завода с учетом её многокомпонентного состава.
- 18. Саломова, Ф. И., Садуллаева, Х. А., & Самигова, Н. Р. (2022). Загрязнение атмосферы соединениями азота как этиологический фактор развития СС заболеваний г. Ташкента.
- 19. Ermatov, N. D., Ganiev, A. A., Nabieva, U. P., Samigova, N. R., Khalmatova, M. A., & Alimukhamedov, D. S. (2022). The role of molecular biological and immunological markers in the diagnostics and treatment of patients with oropharyngeal cancer.
- Самигова, Н. Р. (2016). Исследования влияния производственного шума на слуховой анализатор работников объединения «Махсустранс». Молодой учёный, 8, 20.
- 21. Сулейманова, Д. Р., & Самигова, Н. Р. (2014). Прогнозирование профессионального риска для здоровья врачей санитарногигиенических лабораторий центров государственного санитарноэпидемиологического надзора. Молодой ученый, (18), 159-162.
- 22. Sobirova, D. R., & Shamansurova, K. S. (2016). Features of influence of the new product obtained by new technologies on animal organism in the experiment. In *The Eleventh European Conference on Biology and Medical Sciences* (pp. 44-46).
- 23. Abdullaevich, N. N., Ravshanovna, S. D., & Klara, B. (2017). Effect of genetically modified product on reproduction function, biochemical and hematology indexes in experimental study. *European science review*, (1-2), 94-95.
- 24. Собирова, Д. Р., Нуралиев, Н. А., & Усманов, Р. Д. (2018). Оценка медикобиологической безопасности генномодифицированного продукта. *Методические рекомендации*.
- 25. RAVSHANOVNA, S. D., ABDULLAYEVICH, N. N., & FURKATOVNA, T. S. Assessment of the Influence of the Food Product of Gmo on the Sexual Function and Are Biochemical Research

- White Laboratory Outbreed Rats. *JournalNX*, 6(05), 38-40.
- 26. Собирова, Д., Нуралиев, Н., & Гинатуллина, Е. (2017). Результаты экспериментальных исследований по изучению и оценке мутагенной активности генномодифицированного продукта. Журнал проблемы биологии и медицины, (1 (93)), 182-185.
- Sobirova, D. R., Azizova, F. X., Ishandjanova, S. X., Otajanova, A. N., & Utepova, N. B. (2021). Study of changes in pulmonary alveolar epithelium and aerogematic barrier in diabetes mellitus.
- 28. Собирова, Д., & Нуралиев, Н. (2017). Гинатуллина Е. Результаты экспериментальных исследований по изучению и оценке мутагенной активности генномодифицированного продукта. Журнал проблемы биологии и медицины, (1), 93.
- 29. Sobirova, D. R., Nuraliev, N. A., Nosirova, A. R., & Ginatullina, E. N. (2017). Study of the effect of a genetically modified product on mammalian reproduction in experiments on laboratory animals. *Infection, immunity and pharmacology.-Tashkent*, (2), 195-200.
- 30. Собирова, Д. Р., Нуралиев, Н. А., Носирова, А. Р., & Гинатуллина, Е. Н. (2017). Изучение влияния генномодифицированного продукта на репродукцию млекопитающих в экспериментах на лабораторных животных. Инфекция, иммунитет и фармакология, (2-С), 195-200.
- 31. Nuraliyev, N. A., Sobirova, D. R., Baltaeva, K., & Ginatullina, E. N. (2017). Effect of genetically modified product on reproduction function, biochemical and hematology indexes

- in experimental study. European Science Review, (1-2), 94-95.
- 32. Махмудова, Д. А., & Қарахонова СА, Х. К. (2015). Неврозларда фобия ва қўрқув. *Психиатрия журнали*, (1-Б), 82.
- Karakhonova, S. A., & Ishanhodjaeva, G. T. (2016). Cognitive disorders in Parkinsonism. *Parkinsonism & Related Disorders*, 22, e59.
- 34. Karakhonova, S. A. (2022). The Significance of the Application of Psycho-Correction Methods in the Treatment of Psycho-Emotional Disorder. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, 2(12), 59-64.
- 35. Ибодуллаев, 3. (2022). EFFECTIVE PSYCHOCORRECTION IN NEUROTIC DISORDER.
- 36. Ибодуллаев, 3. Р., Карахонова, С. А., & Сейткаримова, Г. С. (2021). Значение использования методов психокоррекции при лечении тревожно-фобического синдрома. ЖУРНАЛ НЕВРОЛОГИИ И НЕЙРОХИРУРГИЧЕСКИХ ИССЛЕДОВАНИЙ, (SPECIAL 1).
- 37. Karakhonova, S. (2019). Psychocorrection and optimal pharmacotherapy in anxiety-phobic syndrome. *Psychosomatic Medicine and General Practice*, *4*(1), e0401175-e0401175.
- 38. Алишеровна, Қ. С., Сейткаримова, Г. С., & Юнусходжаева, Х. С. (2022). ЭФФЕКТИВНАЯ ПСИХОКОРРЕКЦИЯ ПРИ НЕВРОТИЧЕСКОМ РАССТРОЙСТВЕ. ЖУРНАЛ НЕВРОЛОГИИ И НЕЙРОХИРУРГИЧЕСКИХ ИССЛЕДОВАНИЙ, 3(1).