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3	
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Quality management system in the healthcare system of developed countries

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Abstract: This article analysis the implementation of quality management systems (QMS) within the healthcare systems of developed countries, focusing on their impact on service quality, patient safety, and operational efficiency. QMS plays a critical role in minimizing medical errors, optimizing resource utilization, and ensuring the consistent delivery of high-standard medical care. The study analyzes successful practices from the United States, the European Union, and Japan, highlighting their use of standardization, accreditation systems, evidence-based protocols, and continuous improvement processes. Special attention is given to how these countries have institutionalized quality through regulatory frameworks and organizational culture. By comparing different models and identifying common success factors, the article offers a comprehensive overview of effective QMS strategies. In the concluding section, the potential for adapting and applying these international best practices in the context of Uzbekistan's healthcare system is examined, taking into account local needs, capabilities, and reform initiatives aimed at improving healthcare delivery and patient outcomes.

Keywords: quality management system, healthcare, developed countries, patient safety, Kaizen, accreditation, standardization

1. Introduction

Quality management systems are aimed at improving the quality of healthcare services, covering all aspects of medical care provided to patients [1]. Quality management systems, on the one hand, are aimed at increasing the effectiveness of treatment processes, and on the other hand, include a set of measures aimed at ensuring the safety of patients [2]. These systems aim to provide high-quality services to patients through the continuous improvement and standardization of the activities of healthcare organizations. The main goal of quality management systems is to minimize errors in the provision of medical services, rational use of resources, and increase patient satisfaction [3].

Quality management in the healthcare systems of developed countries has a long history, these countries have accumulated extensive experience in the field of quality management and have successfully implemented it in practice [4]. The development of quality management has resulted from efforts aimed at continuous improvement, standardization, and patient safety in the healthcare sector. Developed countries have significantly improved the quality of medical services, reduced costs, and improved patient outcomes through the implementation of quality management systems [5].

2. Research methodology

These countries widely use a patient-centric approach, evidence-based medicine, and standardized protocols, which contribute to ensuring high quality and efficiency in the provision of medical services [6]. Patient-centered approach means prioritizing patients' needs and desires, ensuring their active participation in the treatment process, and providing personalized services. Evidence-based medicine involves the use of the latest scientific research results in making clinical decisions, optimizing treatment methods, and ensuring best practices for patients. Standardized protocols

help regulate the activities of medical personnel, reduce errors, and ensure the uniformity of medical services [7].

Quality management systems have led to reduced healthcare costs and improved patient outcomes, which confirms the effectiveness of these systems and encourages their widespread use [8]. This is achieved through cost reduction, rational use of resources, optimization of treatment processes, and minimization of errors. Improvement of patient outcomes is achieved through improved treatment methods, a personalized approach to patients, and ensuring their active participation in the treatment process [9]. As a result, patients recover faster, their quality of life improves, and the overall effectiveness of the healthcare system increases [10].

3. Results and Discussion

In the USA, quality management in the healthcare sector has a long history and various models are used, which reflects the specifics of the US healthcare system and contributes to its constant improvement [11]. In the USA, quality management is carried out through various initiatives, programs, and standards aimed at ensuring high quality and safety in the provision of medical services. These models regulate the activities of healthcare organizations, increase their responsibility, and provide reliable guarantees for patients.

Programs such as "Medicare" and "Medicaid" are aimed at improving the quality of medical services, which is one of the main goals of these programs and contributes to increasing their effectiveness [12]. The "Medicare" program provides medical care for Americans over 65 years of age and with disabilities, while the "Medicaid" program provides medical care for low-income Americans. These programs finance various measures aimed at improving the quality of medical services, monitor their effectiveness, and encourage healthcare organizations to provide quality services.

The experience of the USA shows that standardization

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and accountability play an important role in improving quality, which confirms the influence of these factors on the effectiveness of the healthcare system and encourages their widespread use. Standardization ensures uniformity in the provision of medical services, helps reduce errors, and provides best practices for patients. Accountability increases the responsibility of healthcare organizations for their activities, motivates them to provide quality services, and provides reliable guarantees for patients.

EU countries have strict standards and accreditation systems for quality assurance in the healthcare sector, which contributes to ensuring the high quality of the European healthcare system and provides a reliable guarantee for patients. The European Union develops various directives, regulations, and recommendations aimed at ensuring quality in the healthcare sector, which are mandatory for EU member states to comply with. Accreditation systems provide an independent assessment of the activities of medical organizations, confirm their compliance with international standards, and provide reliable guarantees for patients.

Standards such as ISO 9001 regulate the activities of medical organizations, which confirms the impact of these standards on the effectiveness of the healthcare system and encourages their widespread application. The ISO 9001 standard is an international standard for quality management systems and helps medical organizations manage quality, continuously improve, and improve patient satisfaction. This standard regulates the activities of medical organizations, increases their responsibility, and provides reliable guarantees for patients.

Accreditation provides an independent assessment of medical services and provides a reliable guarantee for patients, which confirms the role of accreditation systems in improving the quality of the healthcare system and encourages their widespread use [6]. Accreditation means the assessment of the activities of medical organizations by independent experts, confirming their compliance with international standards and providing reliable guarantees for patients. Accreditation also helps medical organizations improve their activities, improve quality, and increase patient satisfaction.

In Japan, the Kaizen principle is widely applied in the field of healthcare, which reflects the specifics of the Japanese healthcare system and contributes to its constant improvement. The Kaizen principle is aimed at the introduction of small improvements by medical workers in their workplace, and the combination of these improvements leads to large results. Kaizen also increases the responsibility of medical workers for their work, develops their creative abilities, and helps improve the overall culture of the healthcare organization.

Quality control frameworks ensure the active participation of medical personnel and contribute to the identification and resolution of problems, which confirms the influence of these frameworks on the effectiveness of the healthcare system and encourages their widespread use. Quality control circles are subgroups created for medical workers to identify problems that arise at their workplace, solve them, and make proposals for improving quality. These circles ensure the active participation of medical workers, enhance their knowledge and skills, and contribute to improving the overall culture of the healthcare organization.

The experience of Japan shows that continuous

improvement and employee engagement are an important factor in improving quality, which confirms the influence of these factors on the effectiveness of the healthcare system and encourages their widespread use. Continuous improvement is carried out by eliminating identified shortcomings in the processes of providing medical services, introducing new technologies, and improving the qualifications of medical personnel. Employee involvement increases the responsibility of medical workers for their work, develops their creative abilities, and contributes to the improvement of the overall culture of the healthcare organization.

Quality management systems help reduce errors and ensure patient safety, which confirms the impact of these systems on the effectiveness of the healthcare system and encourages their widespread use. Quality management systems include a set of measures aimed at predicting possible risks in the provision of medical services, eliminating them, and preventing harm to patients. This will be achieved by improving the qualifications of medical personnel, introducing new technologies, and complying with standardized protocols in the provision of medical services.

Standardized protocols and guidelines regulate the activities of medical personnel and prevent misconduct, which helps to reduce errors in the provision of medical services and ensure the safety of patients. Standardized protocols define the sequence of steps for diagnosing and treating a specific disease, provide clear guidance to medical personnel, and facilitate their decision-making. Instructions, on the other hand, contain instructions on the correct use of methods, techniques, and means used in the provision of medical services. These documents regulate the activities of medical workers, improve their knowledge and skills, and prevent misconduct.

Improving patient safety strengthens patient confidence and increases the demand for medical services, which contributes to improving the overall effectiveness of the healthcare system. Improving patient safety, reducing errors in the provision of medical services, preventing harm to patients, and providing them with high-quality services. This strengthens patients' confidence in medical services, increases their enthusiasm for treatment, and increases the demand for medical services.

The experience of developed countries shows that the implementation of SCS contributes to reducing healthcare costs, rational use of resources, and increasing the efficiency of medical services. In addition, SMT leads to an increase in the recovery rate of patients, a decrease in disability, and an increase in life expectancy.

Continuous improvement (Kaizen) is one of the main principles of quality management. Kaizen is a Japanese word meaning "improvement." According to this principle, medical organizations should constantly strive to improve their activities, improve processes, and introduce new technologies.

This principle is constantly aimed at improving processes and increasing efficiency. The Kaizen principle helps medical organizations achieve great results through small but constant changes. This principle implies the active participation of medical workers, taking their opinions into account, and searching for opportunities for improvement in their work.

The Kaizen approach helps to achieve great results through small but constant changes. The Kaizen principle



helps medical organizations reduce costs, rationally use resources, increase the efficiency of medical services, and improve patient satisfaction. In addition, the Kaizen principle contributes to increasing the level of job satisfaction of medical workers and their professional development.

International cooperation and exchange of experience contribute to the study of best practices of developed countries and their adaptation to the conditions of Uzbekistan. International cooperation and exchange of experience contribute to the study of best practices of developed countries and their adaptation to the conditions of Uzbekistan. Uzbekistan can study and learn from the experience of developed countries in implementing quality management in healthcare systems.

Cooperation with international organizations, implementation of joint projects, and conducting seminars play an important role in the implementation of quality management systems. Cooperation with international organizations, implementation of joint projects, and conducting seminars play an important role in the implementation of quality management systems. International organizations can provide technical assistance to Uzbekistan, assist in the training of qualified personnel, and provide financial resources.

4. Conclusion

The experience of developed countries shows that the implementation of quality management systems in the healthcare system allows for ensuring patient safety, improving the quality of services, and reducing costs. In the USA, standardization and accountability, in Europe, accreditation systems and ISO 9001, and in Japan, continuous improvement based on the Kaizen principle have yielded effective results. By applying this experience in Uzbekistan, it is possible to increase the efficiency of the healthcare system, strengthen patient confidence, and ensure quality service in accordance with international standards. International cooperation and the exchange of scientific and technical experience are of great importance in this direction.

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**S. Shaumarov, N. Mukhammadiev, O. Zafarov,
S. Kandakhorov, Z. Okilov**

*Assessment of the influence of strength and deformation
characteristics of saline soils on the foundations of buildings and
structures105*

B. Komilov, O. Shavkatov

*Quality management system in the healthcare system of developed
countries110*

S. Ulkanova

*Traffic flows on urban roads and their impact on public transport
users113*

D. Bakhromjonova

Studying and analyzing the traffic intensity of vehicles116