



Exploration of Information Technology Assisting Fine Financial Management in Hospitals

—Taking M Hospital as an example

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Abstract. In recent years, under the strong leadership of the Party Central Committee, we have effectively coordinated the domestic and international situations, combined epidemic prevention and control work with economic development, and coordinated social development and security issues^[1], giving the Party a new understanding of its leadership in economic work in the new era. In the new situation, to deepen the comprehensive reform of public hospitals, it is necessary to establish a modern economic system that meets the high-quality development goals of public hospitals in China. With the increasing emphasis on refined management in public hospitals and the increasing demand for economic operation, it is imperative to strengthen the informatization construction of financial refined management in public hospitals. Modern public hospitals are increasingly emphasizing the use of information technology to improve refined financial management, emphasizing the integration of business and finance, and using economic and operational methods to improve the hospital's operational level, in order to achieve quality and efficiency improvement. Through the analysis of the informatization process of M Hospital's business management, it is explained how to use information technology to promote refined financial management in the implementation process.

Keywords: Public hospitals; Informatization; Fine financial management; Improving quality and efficiency

1 Introduction

The Guiding Opinions of the General Office of the State Council on Establishing a Modern Hospital Management System (Guobanfa [2017] No. 67) clearly states that with the gradual deepening of high-quality economic development in modern public hospitals, as well as the rapid transformation of operational management models and modes, the level of refinement, informatization, scientification, and standardization of financial management in modern public hospitals will also be improved. The efficient implementation of refined financial management in modern public hospitals is particu-

larly important. Under the modern management system of public hospitals, the informatization construction of refined financial management has become the main way to ensure the sustainable development and improve the service quality of public hospitals.

2 The Current Problems in Hospital Financial Informatization Construction

2.1 Insufficient Awareness of Financial Informatization

Many hospitals regard financial information systems as a management tool, not a profitable means. Financial informatization can ensure basic daily management work, and there is no need to invest too much funds and energy in it. In fact, the construction of financial information systems itself is a top-notch project, but most hospitals lack this awareness, resulting in insufficient awareness of participating in financial information construction.

2.2 Low Degree of Financial Integration

The most common and prominent issue in the process of financial informatization construction in many hospitals is information silos. In the process of financial informatization construction, there are multiple systems, multiple vendors, low integration, and low integration, which leads to different situations when financial data is retrieved from different perspectives^[2]. So, it is best to integrate the core financial system, otherwise without deep integration, single sign on, master data, master index, etc., it will lead to many problems in the management and sharing of financial data, especially for hospitals with group and multi hospital areas. This situation is even more serious^[3], which also brings great difficulties to the financial management of hospitals.

2.3 Insufficient Funding Budget

The level, planning, goals, and business of each hospital are different, and the corresponding price system and strategic value for suppliers are also different, which has a great impact on the development of financial informatization. This requires hospitals to scientifically plan their budgets based on their own financial information requirements, rather than blindly imitating other hospitals.

3 The Role of Information Technology in the Refinement of Hospital Financial Management

3.1 Strengthen Understanding of Financial Management

The concepts and concepts of hospital managers are closely related to the direction of hospital development. Some leaders have not paid enough attention to the informatization construction of financial management, which has made it difficult for them to move forward in financial management, becoming a bottleneck that restricts their development. Enhancing the financial awareness of medical staff can help hospitals actively promote financial management informatization.

3.2 Strengthen The Concentration of Data Management

At present, there are still many deficiencies in the financial management methods of hospitals, such as low work efficiency of employees, which affects the economic development of the entire hospital^[4]. Informatization can effectively improve the financial management level, work efficiency, and promote the economic development of hospitals^[5].

3.3 Improving the Professional Quality of Financial Cadres

In the process of improving the hospital's refined financial management system, the comprehensive quality and ability of financial personnel largely depend on their effectiveness in execution. Therefore, hospitals should strengthen the training and further education of financial personnel, increase their technical support, and incorporate them into performance evaluation, so that financial personnel can better utilize information technology to improve the overall financial work of the hospital.

3.4 Establish a Financial Risk Prevention Mechanism

While establishing a refined financial management system for hospitals, it is necessary to establish a sound financial management system, which requires comprehensive and comprehensive management. We need to refine the relevant functions of hospital financial risk management, set goals, time categories, etc., clarify and standardize the supervision, supervision measures, control processes, control methods, and risk assessment of financial risks in medical institutions, and implement them to ensure that hospital financial personnel can implement the concept of refined, accurate, detailed, and strict management in their work^[6].

4 Measures Taken by M Hospital to Promote Financial Refinement Management Through Information Technology

4.1 Updating and Improving Consumables Systems

Drug management is a relatively important part of the hospital management system. The accuracy and timeliness of drug entry and exit registration are very important. Therefore, in the drug and device management system, it is necessary to accurately record the name, specifications, prices, and other information of the drug and device, laying a solid foundation for achieving refined management of the drug and device. In the management process of drugs and consumables, information such as drug and consumable inventory, production date, shelf life, manufacturer, etc. can also be input into the database, which can monitor the validity period and inventory of drugs and consumables in real time, and provide warnings for expiration dates and inventory levels, so that they can take effective measures in a timely manner. In addition, the prices of drugs and consumables also need to be linked to the procurement platform in order to make reliable judgments and provide accurate and effective basis for next purchases.

4.2 Improve the Fee Management System

The outpatient and inpatient fee management system is the fundamental and indispensable part of hospital operation, which can effectively improve the efficiency of hospital operation and reduce management costs. It breaks through the traditional model of "pharmacy pricing, fee room charging, and doctors only seeking medical treatment" under the medical fee system, and the control subject has changed from a simple fee collector to both fee collectors and medical staff. Implementing refined financial management is an important means to improve the efficiency of hospital work, ensure accurate, scientific and reasonable charging, and effectively enhance the economic and benefits of hospitals.

4.3 Improving the Hospital's Cost Management System

By appropriately promoting cost management and control, and promoting cost management in various departments, medical staff can enhance their understanding of cost and management, making them aware of the importance of cost management. In drug consumption management, equipment procurement, and material inventory management, effective management measures should be established to strengthen communication and exchange among departments, and ensure the quality of cost management in each link. The application of modern informatization has enabled the establishment of a cost management system for public hospitals, and based on this, comprehensive budgeting is carried out based on data.

4.4 Improve the Organizational System for Hospital Operation and Management

The financial operation management of public hospitals includes financial and operational management, with the aim of extending financial management to operational management from the perspective of financial management, establishing a financial operation management system, conducting financial operation analysis, and improving the economic benefits and operational efficiency of public hospitals.

1. Maximizing Resource Allocation

By analyzing business data, a hierarchical configuration standard for personnel, finance, materials, technology, space, facilities and other elements based on hospital construction plans and medium - and long-term career development plans has been formulated; Strengthen the optimization and allocation of resources, promote the dynamic matching of various resources, and improve the coordination and service level of medical, educational, scientific research, prevention and other business work^[7].

2. Strengthen Financial Management

Strengthen comprehensive budgeting, cost, infrastructure, contracts, pricing, medical insurance, and other work to lay a solid foundation for the operation and management of hospitals; Integrate the development goals and tasks of the hospital, the business indicators of performance evaluation, and the process requirements of quality control organically, fully exerting its service function, guarantee function, and control function; Promote the sharing of financial information, support and protect the development of companies.

3. Strengthen The Practical Work of Clinical, Medical Technology, Medical Auxiliary and Other Departments

Strengthen the normal operation and development of the department, effectively guide the department to improve operational efficiency; Strengthen cost management in various aspects such as teaching, scientific research, prevention, and logistics services.

M Hospital summarizes and compares the income, cost, and other data of each department, and conducts in-depth analysis of the business situation of each department to understand their annual business situation.

4. Strengthening The Combination OF Operation and Economic Management

M Hospital should enhance its budget and management concepts, integrate various economic management needs into every aspect of its core business processes and quality control, and promote the deep integration of business and resource management; Explore the standardization of clinical pathways and promote the standardization of medical service behavior; Strengthen process control and transform internal supervision of medical service behavior;

5. Promote The Informatization of Business Management

According to the "Norms for Hospital Informatization Construction" issued by the national and industrial departments, strengthen the informationization construction of hospitals, promote the integration of "practical", "financial", "operational", and "flow" into one; Strengthen the effective connection between various information systems, ensure the standardization, completeness, and effectiveness of various data information, and provide support for the statistics, analysis, evaluation, monitoring, and other aspects of operational data^[8]; We need to strengthen information security during the operation process and improve the technical means and system of information security.

4.5 Improvement of the Content and Methods of Hospital Operation and Management

Firstly, the operations specialist completes operational analysis reports on a regular basis every month, and submits the completion status of core operational indicators for each department to the department directors in the form of operational analysis reports, assisting departments in strengthening operational efficiency analysis and management.

Secondly, pay attention to indicators such as work efficiency and hospital bed turnover, and adjust resource allocation in a timely and reasonable manner.

Thirdly, real-time monitoring of device usage to improve device efficiency.

Fourthly, establish cost control standards for departments, reduce waste of consumables, and improve departmental operational efficiency.

5 Conclusion

In summary, with the continuous development of information technology today, introducing information technology into hospital financial management has become a very necessary task^[9]. Therefore, in the process of achieving this goal, public hospitals should fully utilize the advantages of their financial management mechanisms on the basis of financial intelligence. While improving performance evaluation plans, it is also possible to better allocate resources, scientifically allocate funds, improve the hospital's financial management system, innovate financial management methods^[10], and further improve the hospital's internal control system, providing high-quality medical services to the people, thereby truly enhancing the operational efficiency of public hospitals. In practice, M Hospital has deeply integrated business and finance, discovered problems through data, analyzed data through information methods, broke through the flat thinking, and constructed a three-dimensional and multi-dimensional method to solve problems.

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