Research on New Rehabilitation Medical Model Based on "Internet +"

Xiang Shan¹, Lu Qingze^{2,*}, Zhao Hongxia³

¹Department of Rehabilitation Medicine, Chongqing No.13 People's Hospital, Chongqing, China

yy77443211@163.com

Abstract: "Internet +" is the basis for the long-term development of rehabilitation medicine. In order to conform to the development trend of the times, a new model of rehabilitation medicine based on "Internet" is studied. By exploring the connotation of "Internet +" rehabilitation medicine, we learned that the medical industry is actively developing a new model of "Internet +". Therefore, in terms of improving the overall operation level and breaking through the bottleneck of medical development, after analyzing the impact of the new mode of rehabilitation medical development, we can explore from two aspects: establishing a rehabilitation collaborative service platform; establishing a new O2O model of community-based rehabilitation. To develop a new model through the above two aspects can make it develop more long-term and more in line with the development of the times.

Keywords: Internet +; Recovery; Medical care; New mode; Collaborative service platform

1. Introduction

Due to the gradual development and update of Internet technology, many different product models generated under the background of "Internet +" have also emerged. These models are all deeply integrated with traditional industries through Internet platforms. Mobile communication technology is used to upgrade and transform industries, and more new product forms are added, so as to create a business ecosystem interconnected by the Internet. Integrate all diagnosis and treatment processes in rehabilitation medical institutions into the Internet system, and take advantage of the mutual integration of medical resources to improve the overall utilization rate of medical resources^[1-2]. In the internal network of rehabilitation medical institutions, all required information is processed by informatization, and on the basis of the "Internet +" background, the resource information of rehabilitation medical institutions is transformed into digital information within the network, and then the new mode of combining online and offline can break the limitation of spatial scope, and expand the methods used by rehabilitation medical institutions and the objects to be responsible to a certain extent, Make the whole process of rehabilitation medical treatment more convenient, promote the overall development of rehabilitation medical treatment, and enable patients to recover quickly after rehabilitation treatment. Therefore, it is necessary to study a new rehabilitation medical model based on "Internet +".

2. The connotation of "Internet +" rehabilitation medicine

At present, the development of "Internet +" rehabilitation medicine in our country is relatively slow, and there is no effective arrangement and analysis of the medical resources currently needed, and the thinking mode is relatively limited, which is difficult to achieve in terms of the overall ecological layout. On the premise that the resources of the current hospital and the resources of the community are combined, an integrated medical service system can be established, and different modes can be discovered and integrated, which can effectively improve the development level of rehabilitation medicine. After sorting out and analyzing the resources of rehabilitation medicine, it is necessary to establish a unified standard, and integrate and share data and information, so as to provide different services to patients at different times and at different levels. In the "Internet +" rehabilitation medical

²Department of Muscle Traumatology, Chongqing Orthopedic Hospital of Traditional Chinese Medicine, Chongqing, China

³Department of Rehabilitation Medicine, Chongqing Traditional Chinese Medicine Hospital, Chongqing, China

^{*}Correspondence author: Lu Qingze

ISSN 2618-1584 Vol. 4, Issue 12: 1-4, DOI: 10.25236/FMSR.2022.041201

service system, the main technologies involve the data information database, remote service platform, and assistance service platform for rehabilitation medical care. As the basis for supporting the upper-level data application process, the data information database of rehabilitation medicine needs to implement the same management standards for the establishment of the database. The unification of the platform is conducive to the improvement of the medical database, as well as the unification of personal rehabilitation data. Through the establishment of big data, it can assist other patients to achieve the purpose of complete recovery^[3-4]. The referral service platform of rehabilitation medicine, as the core of the long-term operation of the rehabilitation medical system, makes referrals through the different conditions of different rehabilitation patients, realizes the collaborative work between various departments, connects all levels within the system, and realizes resources The unification and sharing of information can also continuously optimize the resources of rehabilitation medicine and promote the improvement and development of the overall level.

3. The impact of "Internet +" on rehabilitation medicine

3.1. Improve the overall operation level

In the context of the development of "Internet +" technology, the continuous economic integration between online and offline, virtual and physical can be used to form a new development model. Therefore, on the terminal of the medical service platform, it is not only necessary to increase the number of online medical institutions for consultation, but also to increase the number of offline Internet companies. This mode is very different from the traditional mode. In the traditional mode of rehabilitation medicine, once problems that cannot be solved immediately are encountered, the Internet can be used to provide the rehabilitation patients with the help they need. Using this method of combining online and offline, we can also effectively supervise the work of rehabilitation medical care, so that it can accurately find out the shortcomings and correct and make up for them.

3.2. Breaking through the bottleneck of medical development

In the process of our country's continuous development, the development speed of "Internet +" is also at a very fast level, which is obviously surpassed by traditional medical institutions. Moreover, in the business aspect of traditional medical institutions, although the security of information and the degree of emphasis have been improved, the scope of the actual work will still be relatively lacking, the efficiency of use will be relatively low, and the related service equipment is not It is very perfect, which will largely prevent the stable development of medical institutions and the improvement of the level of rehabilitation medicine^[5-6]. However, through the use of "Internet +" technology, the deficiencies in traditional medical institutions can be made up, and patients can be recovered in a more timely manner. Patients can also choose mutual clinics and doctors on the platform according to their actual conditions. , which can effectively reduce the complicated medical treatment links and improve the efficiency of medical treatment.

4. Build a new model of rehabilitation medicine

4.1. Establish a rehabilitation collaborative service platform

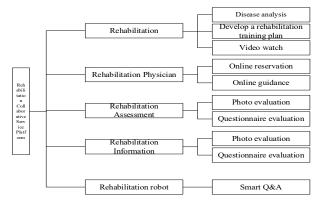


Figure 1: Functional Structure Diagram of Rehabilitation Collaborative Service Platform

ISSN 2618-1584 Vol. 4, Issue 12: 1-4, DOI: 10.25236/FMSR.2022.041201

By establishing a rehabilitation collaborative service platform, we can make effective use of existing resources, effectively build a rehabilitation system from the community, and constantly innovate and develop service modes and technologies, which can improve the quality and level of rehabilitation collaborative services. The functional structure of the rehabilitation collaborative service platform is shown in Figure 1.

The rehabilitation collaborative service platform is mainly to achieve unified management and sharing of data. When facing the effective resources provided within the industry, it integrates the internal resources with the resources provided to provide an integrated platform for patients.

The data information base of rehabilitation medicine is the basis for the service platform to be established under a unified standard, and to establish a data information base that meets the current domestic needs, it is necessary to continuously organize and analyze the data information of rehabilitation medicine, and to integrate the data information. It is necessary to formulate unified treatment standards on this basis^[7-8]. On the one hand, the data information database of rehabilitation medical treatment needs to be effectively connected with the information platform of the population in the region, and on the other hand, it needs to be connected with the specific information in the rehabilitation medical institutions, and at the same time, the information generated during the medical treatment process needs to be added to form each individual's unique information. Rehabilitation data file information, integrate the above information to form a complete rehabilitation file .The use process of the rehabilitation platform is shown in Figure 2.

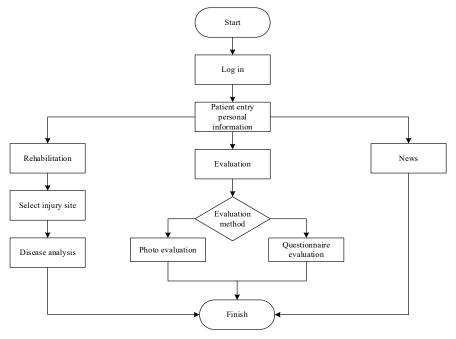


Figure 2: Rehabilitation platform use flow chart

4.2. Establish a new model of community-based rehabilitation O2O

The main advantages of community rehabilitation are low investment cost, wide coverage and strong timeliness. It is a very important part of the rehabilitation medical system. However, the current rehabilitation medical system in our country mainly relies on large-scale comprehensive hospitals to establish the rehabilitation system. The community resources contained in the system are very limited. The main reason for this is the lack of excellent social rehabilitation talents. According to relevant data, only about 15% of the social rehabilitation groups in our country can get the standards needed to establish the system.

First, use the remote rehabilitation institution platform to effectively connect the information of rehabilitation resources, which can not only effectively guide the rehabilitation work of grass-roots rehabilitation personnel, but also provide remote diagnosis and treatment for some patients, so as to obtain the utilization rate of rehabilitation resources. Second, on the basis of the remote rehabilitation institution platform, organize and establish an O2O collaborative rehabilitation team, and divide the rehabilitation physicians into two parts, online and offline, to meet the different needs of different

ISSN 2618-1584 Vol. 4, Issue 12: 1-4, DOI: 10.25236/FMSR.2022.041201

patients^[9-10]. Third, the remote rehabilitation institution platform can also be used as a new open platform to carry out community rehabilitation services through the successive combination of various types of resources.

5. Conclusion

"Internet +" rehabilitation medical care is one of the inevitable trends for the stable development of rehabilitation medical care under the background of modernization. Through the continuous integration of resources in rehabilitation medical institutions, the medical resources are reasonably improved, and the platform sharing of information is taken as the development goal of the new model, so as to make effective use of rehabilitation medical resources to the maximum extent, so as to improve the utilization rate of rehabilitation medical care. Based on the "Internet +" technology, information management of rehabilitation medical resources can also be carried out, and all operations can be completed within the platform. While ensuring information security, it not only achieves transparency but also effectively shares resources and experience, thus making our rehabilitation medical development more professional.

References

- [1] Wang Yiyue, He Kan, Ye Qian et al. Research on the New Mode of "Internet+Rehabilitation Medicine"in Jiangsu Province[J]. Value Engineering, 2020,39(01):6-8.
- [2] Qiu Xiaolu, Wu Jinxing, Liu Xiaoguang et al. Application of the Model of "Internet + Medical Alliance Platform" in Diagnosis and Treatment of ASD[J]. China Digital Medicine, 2021, 16(11):34-38. [3] Hao Wenbin, Gao Huixia, Ren Chunxiao. Exploration of "1 + 1 + 1" Talent Training Mode of Rehabilitation Technology Specialty in Higher Vocational Education Under The Background of Great Health[J]. Industrial & Science Tribune, 2021, 20(19):243-244.
- [4] Cheng Yan. Research on The Path of Online Ideological and Political Education For Higher Vocational Students During the COVID-19 Epidemic Based on The "Three in One Integration" Education Mode[J]. Young Society, 2020(15): 88-89.
- [5] Chen Luyang, Chang Jing, Feng Yayun et al. Case management mode of chronic heart failure based on internet healthcare[J]. Chongqing medicine, 2020, 49(08):1373-1376.
- [6] Zhou Y, Tian D, Zhou D. Research on the prevention and control of 2019 novel coronavirus pneumonia for Internet-based hospitals using UTAUT-DST model[J]. Chinese Journal of Hospital Administration, 2020, 36(00):E006-E006.
- [7] Cui H, Chang C. Deep Learning Based Advanced Spatio-Temporal Extraction Model In Medical Sports Rehabilitation For Motion Analysis and Data Processing[J]. IEEE Access, 2020, PP(99):1-1.
- [8] Chen Y, Lu S. Research on Health Rehabilitation of Traditional Chinese Medicine Based on Computer Network Technology[J]. Journal of Physics Conference Series, 2021, 1744(4):042097.
- [9] Razov P V, Kibakina A Y. Social Institute of tutoring in educational rehabilitation of disabled people based on Internet technologies[J]. Digital sociology, 2020, 3(1):19-26.
- [10] Wang Z, Ye W, Gong S, et al. Research on control algorithm of the upper limb rehabilitation robot based on PI hysteresis compensation[J]. Journal of Physics Conference Series, 2020, 1570:012015.