

Short communication

The role of information in management of modern hospital: Experience of Medical reform in Shenmu, China

Abstract

The present study assessed the role of information in management of modern hospital in Shenmu, China. Shenmu Hospital has established a remote consultation platform, which can carry out remote pathological consultation, clinical consultation, imaging consultation, ECG consultation, remote ward round, remote skin clinic, remote teaching and other services. The study will optimize regional medical resources, establish cooperative units of district hospitals and medical communities of district hospitals and town and street health centers (community health service centers), and improve the service capacity of district hospitals and primary medical and health institutions.

Keywords: pathological consultation, Shenmu hospital, information in management, consultation system

Introduction

Shenmu is a resource-rich city located in the Loess Plateau of northern Shaanxi Province of China. Among the top 100 counties in China, Shenmu is also the first in western China, with a total GDP of nearly 130 billion yuan [1,2]. Located in northern China, it is the largest northern part of Shaanxi Province and close to Inner Mongolia. It is located in the middle reaches of the Yellow River and along the Great Wall. With a total area of 7,635 square kilometers, the city has jurisdiction over 14 towns and 5 townships and a population of 650,000. Shenmu has a long history. As early as 4,300 years ago, human beings lived and multiplied on this rich land [3,4]. Shenmu was also the first place in China to introduce free medical care for all and universal 12-year compulsory education. Shenmu Hospital (Shenmu Hospital affiliated to Northwest University) is one of the first 50 pilot hospitals for the reform of county-level public hospitals by the former Ministry of Health, and is also the first county-level "third-class B" general hospital in the province. At present, the hospital has 60 departments, 1000 beds and 1,418 medical workers /employees. In 2019, the hospital treated 920,000 outpatient and emergency patients, 34,000 inpatients and more than 10,000 inpatient surgeries. "Internet +" information makes Shenmu Hospital fly higher[4,5,6]. In order to let patients feel the improvement of medical services, Shenmu

Comment [A1]: Please, additional research methods used and describe the research results found.
Remember, improve your abstract 200-250 words

Hospital has taken advantage of the "Internet +" to continuously improve the service efficiency with the support of modern scientific and technological means. By providing remote consultation, online appointment registration, information inquiry and push services, mobile APP medical service platform and two-way referral information platform are built to break the regional limitations of medical services and make quality services within reach [4,5,6,7].

Through the comprehensive implementation of appointment treatment in the hospital, patients can enjoy appointment treatment service with the help of wechat, Alipay, medical "one-card" and ID card. There is a self-service inquiry service machine in the hall of the outpatient department and inpatient department of the hospital. Patients can immediately inquire the charge items, the amount charged and the details of their expenses in the outpatient department or previous inpatient visits. Shenmu Hospital health service wechat platform, Alipay query the previous visit records, effectively maintain the patient's right to know, so that patients understand and rest assured to see a doctor. The imaging department and laboratory waiting room of the hospital shall set up self-printers for inspection and inspection reports and self-printers for X-ray and CT films. Patients can print the report and film by scanning the barcode within the agreed time, which effectively protects the privacy of patients, shortens the waiting time of patients, reduces the workload of medical staff, and greatly improves the work efficiency. Doctors can check the results of laboratory MRI,CT and other tests on the mobile phone anytime and anywhere to understand the patient's condition[6.7.8].

Shenmu Hospital has also established a remote consultation platform, which can carry out remote pathological consultation, clinical consultation, imaging consultation, ECG consultation, remote ward round, remote skin clinic, remote teaching and other services. On the other hand, consultation and referral with China-Japan Friendship Hospital, Beijing Tongren Hospital and Shanghai Children's Hospital can be realized through remote consultation system, medical alliance consultation system and ophthalmology remote consultation system. By the remote ECG system, the ECG consultation of township health centers can be realized, and the ECG diagnosis level of township health centers can be effectively improved.

Add method

Improvement of medical services

Continuous improvement of medical services to build a "highway" of health care. At the 2018 National Work Conference on Improving Medical Services held in Beijing, Shenmu city hospital won the 2015-2017 national quality medical services "take advantage of information across the country to improve the medical service demonstration hospital" "strengthening humanistic care hospital" nationwide to improve the medical service model and neonatal dept won the "reasonable allocate

Comment [A2]: In the methodology add a flow chart for the method. Strengthen the technique by using systematic stages, starting from the initial stages of research, the implementation stage, and the final stage or evaluation (in the form of data collection techniques, data interpretation techniques, and data analysis based on clear indicators and instruments)

Comment [A3]: The writing of the discussion is still not effective and efficient. The discussion is still not supported by relevant data. Pay attention to the symptoms and phenomena that you find from research, then present supporting and contradictory arguments as an interesting discussion and provide clarity on the events and findings that you get. Present an argument with the most recent references (from journals published in the last 5 years). Improve the discussion with the conclusions that you make yourself at the end, as a comment from you on the research results that you get.

resources across the country to improve the medical service demonstration unit", "construction of a harmonious relationship between people nationwide to improve the medical service model" four great honor. In recent years, in accordance with the requirements of the National Health and Family Planning Commission, Shenmu Municipal Party Committee and government, Shenmu Hospital has taken the improvement of medical services as the focus of the hospital's work, mobilized the hospital's medical staff to work hard and adhere to the "patient-centered" hospital purpose. Through promoting information construction, promoting appointment diagnosis and treatment, strengthening outpatient and emergency services, optimizing service process, standardizing diagnosis and treatment behavior, deepening the connotation of high-quality nursing, and paying attention to humanistic care, efforts have been made to improve medical services and medical quality, and remarkable achievements have been made[5.7.9].

Continuous improvement of medical services to build a "highway" of health care excellence is the driving force for the sustainable development of the department. The emergency department has become an important "window" to show the discipline level of the hospital due to its characteristics of running against time and the need to cooperate with multiple disciplines. The emergency department of the hospital is open 24 hours a day, opening a barrier-free channel to save the lives of critically ill patients. Through the opening of "Chest Pain Center" and "Shaanxi Provincial Center for the Treatment and Referral of critically Ill Pregnant Women" and other first aid channels, the hospital has laid a "highway" for the life treatment of all kinds of critical patients. Strengthen system construction, reasonable allocation of resources, smooth emergency "green channel". The hospital implements the classification and treatment of emergency patients according to the severity of their condition. All kinds of critical patients, such as acute cardiovascular and cerebrovascular diseases, severe trauma, critically ill pregnant women, critically ill elderly patients, and critically ill pediatric patients, are treated first and

paid later. Strengthen pre-hospital emergency services. After receiving a call for help, the ambulance will arrive at the scene for treatment and transport within 10 to 15 minutes without special circumstances. The application of helicopters to transport critically ill patients, 5 hours of the helicopter only 26 minutes to arrive, emergency rescue, the whole process is completely free, injured villagers did not spend any extra money.

Medical reformation

Shenmu Hospital actively responds to the call of national medical reform and takes measures to radiate high-quality medical resources to a wider range. The establishment of medical community, carry out pairs of support. Shenmu Hospital takes the initiative to undertake social welfare responsibilities and is the first to launch a medical community in the city. At present, the hospital has partnered with Daliuta and other 8 central health centers to carry out the county-town integration construction, and established medical community with 5 township health centers to provide staff training, equipment support and expert medical support. At the same time, the remote ECG consultation system has been established with 21 health centers. At present, the township health centers assisted by the aid can carry out routine B ultrasound, three routine examination and other items, and the remote ECG consultation has been carried out for more than 35,000 times. Community of Medical Services (Community of Medical Services). It is to deepen cooperation with provincial and municipal tertiary public hospitals, strengthen personnel training and specialty construction, and improve regional medical and health service capacity. To establish a unified management system for medical communities, guide the subsidence of medical resources, promote more rational and efficient allocation of regional medical resources, and improve the overall capacity of primary medical services.

We will optimize regional medical resources, establish cooperative units of district hospitals and medical communities of district hospitals and town and street health centers (community health service centers), and improve the service capacity of district hospitals and primary medical and health institutions. With Shenmu Hospital as the core, relying on the advantages of technology, personnel and equipment, we will strive to build a hierarchical diagnosis and treatment model of primary diagnosis, two-way referral, separate treatment of urgent and slow, and linkage between upper and lower levels. In this way, experts in 21 towns and townships in the city will run away and the people will be relieved of their worries, so that the majority of patients will not leave the city when they are seriously ill, and the burden of transportation, accommodation, and accompanying relatives will be reduced when people go to out-of-town Class iii Grade A hospitals to see a doctor. During the epidemic of COVID-19, all the staff of Shenmu City Hospital, under the leadership of the relevant government departments, went all out to actively hard work , and achieved good results.

Conclusion

Through hard efforts, Shenmu Hospital has become the "benchmark" of medical institutions and the "leader" of regional medical and health work in the Shanxi, Shaanxi and Mongolia bordering areas. In the future, the hospital will aim to establish a modern hospital management system and a high-quality and efficient medical and health service system, further apply new concepts and technologies, and innovate the medical service model.

References

- 1) <http://www.sxsm.gov.cn/>
2. <http://app.ylrb.com/?app=article&controller=article&action=show&contentid=568331>
- 3) Gao Kun, Liu Hong , Liu Yonglin,et al ,Prevention and Control Measures and Effects of COVID-19 in Shenmu City Hospital, China,*International Journal of TROPICAL DISEASE & Health* 41(8): 18-24, 2020
- 4)<https://xw.qq.com/amhtml/20220806A00PXR00>
- 5) <https://med.nwu.edu.cn/info/1040/1596.htm>

Comment [A4]: Writing conclusions has not been effective and efficient. Include key data or indicators of your research results. Use effective and efficient sentences in writing the conclusions that you get from this research. Present the core data that you produce, and present your interpretation with an effective and efficient

Comment [A5]: add reference, minimum 25 international journal
Pay attention your references: *Reference must be 85% in (2017-2022) from journal indexed by Scopus. Citation and Reference in Paper must using Mendeley with IEEE Style.*

- 6) Abu Taiub Mohammed ,Yonglin Liu,Fuyong Jiao, Case Report on a Misleading Case of Appendiceal Perforation Presented with Severe Generalized Convulsion,Transl Pediatr, 9(1): 81–85 ,2020
- 7)Juan Liu1, Yonglin Liu,juaa liu , etal .The Change of Children and Adolescents Growth and Development in 20 Years in Shenmu City, China, International Journal of Clinical and Medical Cases, 3:(4) 12-4,2020
- 8)) Juan Liu1, Yonglin Liu , etal . Analysis of Correlation Between Respiratory Tract Disease and Vitamin D Changes of Growth and Development of Children and Adolescents in Shenmu City in the Past 20 Years. 3:(5) 16-19,2020
- 9)Yanmei Qiao , Fenglan Wang , Zhongming Yun ,etal Analysis of 157 Cases of Congenital Heart Disease in shenmu , Clinical Research in Pediatrics • 3 (1) 37-28,2020
-

UNDER PEER REVIEW