Establish "Hand Circle Unique Code" to Improve the Correctness of Patient Identification

Luo-Piu Wei / Yin-Chuan Chiang 1, 2 / Tzu-Yi Huang3 / Hsueh-Ju Yang4
1. Taipei Municipal Wanfang Hospital, Supervisor, Department of Nursing Service
2. Taipei Municipal Wanfang Hospital, Nursing department of Informatics head nurse
3. Taipei Municipal Wanfang Hospital, Nursing department of Informatics nurse specialist
4. Taipei Municipal Wanfang Hospital, Deputy Director, Department of Nursing

Background

The issue of patient safety has been valued by countries all over the world. The purpose of medical treatment is to relieve or alleviate the patient's disease and improve the quality of life. However, sometimes the patient will be harmed in medical treatment, and the correctness of patient identification is all safety measures. The Joint Commission on Accreditation of Healthcare Organizations (JCAHO) listed "improving the correctness of patient identification" as the first item of international patient safety goals. In clinical treatment, patient identification is an important part of it. When the patient is identified incorrectly, it will cause subsequent problems in the treatment. The traditional hand-picked patient label has the patient's name, date of birth, etc., and is used for clinical identification. It needs to be pasted or written by the nursing staff. Ask the patient to say that if the patient cannot express it, the patient will not be properly checked. Through the integration of information systems, process improvement, bar code scanning technology and hospital information system, it provides more convenient mobile medical services, improves the efficiency of medical staff, improves the correctness of patient identification, and enables patients to get better care.

Methods

Before implementing the hand-circle unique code system, evaluate the wireless network transmission problems of clinical systems, including in-house and out-of-hospital integration. Plan the use of the instrument, including the meeting to start the unique code of the hand circle, complete the modification of the handwritten sticker layout, the emergency and hospitalized handprint printing process, the design of the hand ring waterproof sticker, the labeling machine to set the flow, and complete the relevant system. Correction, such as electronic chemotherapy drug delivery operation, single blood glucose test transmission, physiological monitor measurement transmission, completion of sterilization item tracking system modification, installation of 17 barcode scanners of ECG machine and confirmation of uploading hand ring unique code. After completing the above matters, the nursing director will announce the relevant matters concerning the unique code on the lap, and draw up the new patient in the hospital to take the new hand circle. On the next day, replace all the patients' hand circles with the unique code hand ring. The updated sample tracking system can only brush the unique code and meet with the hospital medical quality department to confirm the vital signs, electrocardiogram, blood glucose machine, etc., to connect the medical end, and each time the nursing staff measures vital signs, electrocardiogram, blood glucose measurement and when the blood is drawn, the patient can be correctly identified and given follow-up care.

Result

After the implementation of the unique identification code system of the hand circle, the production of the emergency hand circle and the inpatient patient’s hand ring was assisted by the medical office to reduce the work of the nursing staff, and the correctness of the patient’s blood test tube sticking error was improved by 10%. The abnormality of the administration caused by the patient identification error was reduced to 0 pieces. Through this operation, the hospital completes the establishment of the wireless network in the hospital, and provides a correct and convenient method for patient identification that cannot be expressed, the correctness of the blood glucose test patient, and the correctness of the ECG patient.

Conclusions

Using information in medical care for the new trend of future care, the establishment of the unique identification code of the hand circle in clinical care, enabling the nursing staff to perform patient identification operations correctly and quickly, so that the implementation of each technology is more correct, expecting to use information technology can increase the efficiency of medical staff, improve the integrity of their work, reduce errors caused by human error, improve the accuracy of patient identification, and enable patients to get better care.

Figure 1 Establish "Hand Circle Unique Code"

Figure 2 Number of errors in emergency medical examinations

Figure 3 Number of errors in hospitalization medical examinations