

Study on the Application of Meticulous and Predictive Management in Pediatric Emergency Nursing

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Abstract: To explore the application of meticulous and predictive management in pediatric emergency nursing. 280 pediatric patients were randomly divided into observation group and control group according to time, with 140 children in each group. There were 95 women and 45 men in the observation group, and 82 women and 58 men in the control group. The control group was given routine nursing, while the observation group was given meticulous and predictable management. The results were statistically analyzed using SPSS 22.0 software. The management quality of the observation group in business assessment, safety management, management records and basic management was much higher than that of the control group, with statistical significance ($P < 0.05$). The nursing satisfaction of the observation group was significantly higher than that of the control group ($P < 0.05$). And the incidence of risk events in the observation group was significantly lower than that in the control group, and the difference was statistically significant ($P < 0.05$). The application of meticulous and predictive management in pediatric emergency nursing can effectively improve the comprehensive quality of nursing staff, improve the quality and safety of nursing, and reduce the incidence of adverse events, which has wide clinical promotion value.

Keywords: Emergency nursing; Meticulous and predictive management; Pediatric

1. Introduction

Emergency pediatrics is a special department, especially the critically ill children who come to see a doctor. Their condition is complex, so higher requirements are put forward for the nursing staff of the department, not only to play its main role, but also to have strong ability to identify and deal with the potential factors of risk events. There are certain risks in pediatric emergency nursing, such as accidental injury, illness delay and drug risk. If there are problems, disputes are very easy to occur. Therefore, clinical nurses are required to have higher requirements, not only professional knowledge, but also pressure resistance and high sense of responsibility [1-2].

Meticulous and predictive management is an effective management procedure in the new era. When it is applied to nursing work, it can effectively identify hidden medical risks, thus avoiding risk accidents and causing adverse effects on medical institutions. This paper takes 280 pediatric patients admitted to our hospital as the research object, and discusses the implementation effect of meticulous and predictive management.

2. Materials and methods

2.1. Clinical data

280 pediatric patients admitted to our hospital were randomly divided into an observation group and a control group according to time, with 140 children in each group. There were 95 females and 45 males in the observation group, with an average age of (4.86 ± 3.71) years and an average body mass of (38.72 ± 3.68) kg. There were 82 females and 58 males in the control group, with an average age of (5.26 ± 3.77) years and an average age of (5.42 ± 3.04) years; The average body mass is (37.62 ± 3.36) kg. There was no significant difference in general data between the two groups ($P > 0.05$), which was comparable. Before the study, all the family members were informed and signed the Informed Consent. This study was approved by the hospital ethics Committee.

2.2. Method implementation

The control group received routine nursing care, including daily disinfection, fixing and replacing accessories, and preventing complications.

The children in the observation group were given meticulous and predictive management. The details are as follows:

1) Targeted analysis. To understand the main factors that lead to complications, and to inquire the relevant literature materials according to these inducing factors, and to carry out reasonable nursing intervention in combination with the actual situation in our hospital. Pediatric emergency nursing training is conducted in the department, and the skilled specialist nurses in our hospital are selected for puncture in the neonatal puncture. If the neonatal blood vessels are special, the head nurse of the department can be selected to complete the puncture.

2) Improve the nursing meticulous and predictive management system. Meticulous and predictive management team was established, with the director of emergency pediatrics as the team leader and the head nurse of emergency pediatrics as the deputy team leader. The team leader was responsible for organizing nurses to discuss, and the discussion contents were as follows: summarizing the risk events that occurred in the past, classifying and analyzing the risk events, and consulting the information at the same time, and formulating corresponding prevention measures according to the actual situation of the department. Establish a reporting system for medical adverse events. Once nurses make related nursing mistakes, they should fill in the adverse event report and pay attention to learning and correction.

3) Meticulous nursing. Detailed preaching and obtaining the approval of family members is the first prerequisite for completing emergency care. Therefore, it is necessary to obtain the consent of newborn parents before emergency care, carry out targeted and meaningful pre-emergency education, and explain the advantages and processes to improve cooperation.

4) Predictive nursing. Play soothing nursery rhymes at 45 decibels 10 minutes before emergency nursing until emergency nursing operation is completed. According to the individual differences of newborns, choose the appropriate type of catheter and soak it in normal saline before puncture. Puncture is performed by a mature and experienced specialist nurse [3].

5) To strengthen the safety measures for all departments, the hospital also needs to strengthen the safety measures for all departments. In the process of emergency treatment for children, nurses need to verbally describe the patient's illness, including the rescue process and medication, to ensure the effectiveness of the handover work. After the rescue work is completed, the nursing staff need to assist the parents of the children to go through the hospitalization procedures, and pay attention to the changes of the children's condition, and notify the doctor immediately if the children have abnormal conditions [4-5].

2.3. Evaluating indicator

Self-administered questionnaire is used to evaluate management quality, including business assessment, safety management, management records and basic management. The score is proportional to the management quality.

The two groups of risk events were statistically sorted out [6]. Nursing risk events refer to all unsafe events that may occur in every link of nursing work, mainly including two aspects: nursing risk events caused by non-nurse technical operation factors, such as: sending wrong drugs, failing to carry out doctor's orders, missing drugs, wrong specimens, and poor communication leading to medication errors; Unexpected nursing risk events such as; Accidental bed fall, accidental fall, pressure sore, etc.; The nursing risks caused by the lack of professional skills of nurses are such as; Puncture failure, leakage of liquid medicine leads to subcutaneous necrosis.

2.4. Statistical method

SPSS 22.0 software was used for statistical analysis of data, and the measurement data were expressed by $\bar{x} \pm s$, and the comparison between the two groups was made by T test. The counting data was expressed by the rate (%), and the comparison between the two groups was made by the four-grid table χ^2 test, and the difference was statistically significant ($P < 0.05$).

3. Result

3.1. Comparison of management quality between two groups

The management quality of the observation group in business assessment, safety management, management records and basic management is much higher than that of the control group, and the difference is statistically significant ($P < 0.05$), as shown in Table 1.

Table 1: Comparison of management quality between two groups ($\bar{x} \pm s$)

group	n	Business assessment score	Safety management score	Management record score	Basic management score
Observation group	140	90.386±7.175	90.09±6.515	94.863±9.81	94.437±6.874
control group	140	80.163±8.453	82.243±6.688	79.985±7.165	70.031±6.302
T value		15.938	11.738	8.404	8.746
P value		0.000	0.000	0.000	0.000

3.2. Comparison of nursing satisfaction and risk events between the two groups

The nursing satisfaction of the observation group was significantly higher than that of the control group ($P < 0.05$). And the incidence of risk events in the observation group was significantly lower than that in the control group, and the difference was statistically significant ($P < 0.05$). See Table 2.

Table 2: Comparison of nursing satisfaction and risk events between the two groups [$n(\%)$]

group	n	Nursing satisfaction	Occurrence of risk events
Observation group	140	138(98.6)	2(1.4)
control group	140	122(87.1)	18(12.9)
χ^2		6.817	4.932
P value		0.0203	0.0269

4. Discussion

Meticulous and predictive management is a management concept from developed countries, which refers to the meticulous management of everyone, everything, every day and every place. Through the systematization and refinement of rules, it adheres to the principles of standardization, standardization, data and informationization, so that all units of enterprise and department management can operate accurately, efficiently, cooperatively and continuously [7-8]. Pediatric emergency nursing is very difficult, and the assessment of children's condition is very difficult. Children may have nursing risks at any time, which may threaten their safety. Moreover, children admitted to pediatric wards are prone to crying, and their emotions fluctuate greatly, which makes their compensation mechanism more prone to risk events. Therefore, complaints and disputes in pediatric emergency departments of medical institutions in China have been constantly emerging, which requires the pediatric emergency departments of medical institutions to strengthen meticulous and predictive management in their daily nursing work [9].

Meticulous and predictive management improves managers' foresight of various pediatric risk events and dangerous events, improves their emergency handling ability, makes the management level and quality of pediatric managers by going up one flight of stairs, and has a definite effect, greatly reducing the incidence of nurse-patient disputes and complaints, improving the service image of the hospital and contributing to the long-term development of the hospital [10]. This study shows that the management quality of the observation group in business assessment, safety management, management records and basic management is much higher than that of the control group, and the difference is statistically significant ($P < 0.05$). The nursing satisfaction of the observation group was significantly higher than that of the control group ($P < 0.05$). And the incidence of risk events in the observation group was significantly lower than that in the control group, and the difference was statistically significant ($P < 0.05$). It is proved that meticulous and predictive management is feasible and effective in

pediatric emergency nursing, which has high reference value in clinic and deserves the attention and attention of pediatric medical staff.

Meticulous and predictive management requires that pediatric emergency nursing should be meticulous, and the main principles are strict, meticulous, accurate and precise [11]. Meticulous and predictive management originated from developed countries and is an advanced management concept. Meticulous and predictive management is to change the macro management of pediatric wards into refined management. Strengthening the training of pediatric emergency nursing staff under Meticulous and Predictive Management is helpful to improve the emergency handling ability of nurses. By improving the insight and foresight of managers on risk events in pediatric wards, the emergency handling ability of nurses in pediatric wards can be better improved. By clarifying and refining the division of responsibilities, the management content can be better standardized, and human resources can be rationally utilized, which is conducive to the construction of a good nurse-patient relationship. Meticulous and predictive management can make rational use of nursing resources, scientifically adjust human resources, increase nurses' sense of responsibility and service concept, define responsibilities, refine division of labor, quantify assessment, make rewards and punishments clear, provide services in place, and optimize the workflow, thus improving nursing quality and children's satisfaction rate with nursing services, and establishing a good nurse-patient relationship.

Safety is the basic requirement of people and nursing work, so nursing safety should be paid attention to by every manager. It is necessary to carefully find hidden dangers that seem unimportant but are easy to cause safety problems in nursing work and formulate corresponding management measures. In fine management, the key is to highlight a "fine" word, so fine that every link can not be ignored [12]. In the past, we didn't pay much attention to the retention of urine and urine samples from newly admitted patients. We stuck the containers for retention of samples and gave them simple instructions. There were differences in the methods of retention, such as the samples collected, the amount and the time, and even some patients had not yet retained samples after discharge. To provide patients with safe and convenient services in the nursing process, we can think of and do what patients did not think of; What patients think we can't do, we can do it, and if we think we do well, we will do better. It is such a management concept that enables us to overcome all kinds of difficulties and comprehensively promote the smooth progress of nursing work in departments.

5. Conclusions

To sum up, the implementation of meticulous and predictive management in pediatric emergency nursing can improve the nursing quality of nurses, promote the improvement of treatment effect, and improve the nursing satisfaction of children's families, which has clinical significance and is worth popularizing.

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