Prevention Value of Infection Prevention Measures for Isolated Patients

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Abstract
Hospital infection is very common, and there are many ways of infection, such as surgical wound and nurse infection. Therefore, it is very important for patients to explore how to prevent infection. The purpose of this article is to describe the experience of various patients using infection prevention measures in their care. The purpose of this article is to provide information that can be used to develop the care of patients with infectious diseases. The study was conducted in the form of literature review, and the data was collected using a database called CINAHL. The five articles were analyzed by inductive content analysis. The results are divided into three categories: (1) Provide emotional support. (2) Team work between patients and their families. (3) Check the isolation equipment in the isolation ward every day. In a word, we can use some preventive measures to reduce the incidence of infection, so that patients can care more safely. Prevention of medical-related infection is very important for medical care in every country.

Keywords
Infection prevention measures, Isolation, Blood disease isolation, Patient experience

1. Introduction
The hospital is densely populated and is most vulnerable to the contamination of pathogenic microorganisms. There is also infection in nurse intervention, such as urinary tract infection when a nurse inserts a catheter for a patient. There are also venous catheter infections. Nurses should take measures to prevent infection [1].

According to research statistics, medical-related infections occur in every country, so this is a global problem. According to the data, in England, 6.4% of inpatients are infected, in Europe, 7% of patients are infected, and even 37000 people die of infection. Therefore, the prevention of medical-related infections is very important for the health care of every country. There are four preventive measures to prevent infection, such as environmental hygiene, hand hygiene, use of personal protective equipment and safe disposal of sharp tools [2].

2. Importance of infection prevention measures
For patients who need to prevent infection, it is important to isolate the patients themselves, which not only benefits the patients, but also benefits other patients in the hospital, as well as doctors and nurses. Infection prevention measures for patients who need isolation can provide a suitable living environment for the patient. Proper living environment can promote the recovery of patients' diseases. Therefore, infection prevention measures for patients are important [3].
2.1 Infection prevention measures

Precautions refer to that the blood, body fluid, excreta and secretion of patients are considered infectious and need to be isolated, regardless of whether there is obvious blood stain, pollution, contact with incomplete skin and mucous membrane and contact with the above substances [4].

Standard preventive measures refer to the prevention of infection of blood-borne pathogens and various humoral diseases (including blood, secretion and excreta). The standard preventive measures are mainly through some protective measures to prevent infection, such as washing hands, wearing gloves, to prevent blood and skin contact to reduce the risk of infection [5].

Droplet prevention measures are mainly used to prevent particles with diameter less than 5 microns in the air, and are mainly used for patients with infectious diseases, such as pneumonia, various influenza, whooping cough and other infectious diseases. Because infectious particles can spread in the air and to other people, masks should be used to prevent infection [6]. Contact prevention measures are measures taken by nurses to contact with objects in the patient's environment, such as touching the patient's clothes or touching the patient's skin. Therefore, preventive exposure can reduce the risk of disease [7].

Air precautions are based on the principle of airflow to clean exhaust and ventilation. For example, due to the transmission of pathogens in the air, patients with infectious diseases can transmit pathogens through breathing and coughing, and there are microorganisms in the pipeline. Therefore, air prevention measures are very important for preventing infection [8].

Definition of protective isolation of blood diseases: Because the immune function of patients with blood diseases is reduced and they are vulnerable to serious infection, in order to prevent infection, protective isolation measures should be taken for such patients, so as to keep them in a sterile environment during the whole operation process. Prevention of infection is very important for patients, and standard prevention measures can be strengthened to reduce the risk of infection. Improve the management network of hospital infection prevention and control; Improve patients' awareness of prevention and control of infection; Follow up and observe the risk factors of infection; Pay attention to disinfection and sterilization monitoring methods can effectively protect the safety of patients. Reducing the risk of infection can promote the treatment of patients' own diseases and prevent other complications [9].

2.2 Patient experience

In order to do a good job in patient care, it is important to interview patients' experience. We must respect the feelings of patients and understand that they most want to provide them with better care. In order to understand the feelings of patients, we interviewed patients with surgical site infection and learned their feelings. Patients with surgical site infection have not only physical pain, but also psychological fear, anxiety and economic pressure. Through their experience, you can understand how much damage surgical site infection has caused to them, so it is very important for patients to prevent infection [10].

By interviewing patients' experiences and feelings, they can understand that nurses' performance in a certain aspect is poor and needs to be improved. They can also know what nurses are doing, which can improve and improve our infection prevention measures. This paper selected 60 patients from ICU for interview. According to the data, 36 patients agreed that nurses should provide information reminders before indwelling catheters and inform patients of the benefits of using indwelling catheters. Therefore, it can be seen that more than half of the patients thought that the nurses in the hospital performed well in humanistic care. 28 patients agreed that the nurses asked their feelings after indwelling catheters, and there were problems, but half of them did not agree. Therefore, some nurses in the hospital did not have enough humanistic care to improve. All nurses should be educated to improve their awareness of patient care. At the same time, in the interview, some patients may have hematuria, pus around the catheter and male scrotum swelling. It can be seen that patients will be infected after indwelling the catheter, so nurses should pay attention to strict hand-washing operation and aseptic technology to prevent infection when inserting the catheter [11].

3. Purpose and research issues

The purpose of this article is to describe the experience of various patients using infection prevention measures in nursing.

The purpose of this article is to provide information that can be used to develop the care of patients with infectious diseases.

The research question is "How can nurses support patients who need infection prevention measures?".
4. Methodology

4.1 Literature review

Literature review is a systematic review and analysis of various documents related to the problem to understand the research process in this field. Literature review needs to be organized. It is not only a series of summary of our research content, but also a synthesis of previous relevant research ideas [12].

4.2 Scientific article selection process

We searched a database CINAHL (Ebsco) according to the inclusion criteria (Table 1).

<table>
<thead>
<tr>
<th>Inclusion criteria</th>
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<tbody>
<tr>
<td>English, Chinese research published 2015-2020</td>
</tr>
<tr>
<td>peer reviewed</td>
</tr>
<tr>
<td>full text available for Jamk students</td>
</tr>
<tr>
<td>original research articles (no literature reviews)</td>
</tr>
</tbody>
</table>

Then we searched the literature with following keywords: patient or patients or client or clients and isolation or infection control or infection prevention or infection control and prevention and experiences or perceptions or attitudes or views or feelings (Table 2).

<table>
<thead>
<tr>
<th>Infection precautions of patient influence</th>
<th>Key terms</th>
<th>Result</th>
<th>Chosen based on the title and/or abstract</th>
<th>Chosen based on the full text</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINAHL plus with full Text</td>
<td>patient or patients or client or clients isolation or infection control or infection prevention or infection control and prevention experiences or perceptions or attitudes or views or feelings</td>
<td>937</td>
<td>9</td>
<td>5</td>
</tr>
</tbody>
</table>

In the second step, we searched the selected documents according to the topic, and must meet the requirements of infection prevention and patient experience, and then record the number of papers. The third step is to read the document summary that matches the title, check whether it matches the title of the paper, and then record the number of papers that meet the requirements of the document. Finally, we read the whole article to see if it answers the research questions.

5. Results

Through thematic analysis of the data identified in the five articles, the following three categories are obtained: (1) Provide emotional support. (2) Team work between patients and their families. (3) Check the isolation equipment in the isolation ward every day.

5.1 Give emotional support

The results show that patients will have negative emotional effects and some emotional changes when they are isolated. In addition, some nurses lack the method of how to take care of the patients separated from the drum to prevent infection, so the patients and their families have emotional changes, such as infection of vascular access in hemodialysis after kidney transplantation [13].

When nurses fully understand the psychological and emotional changes of isolated patients, they can understand their personal experience. This can improve the communication between nurses and isolated patients and give them better emotional support and encouragement [14].

Because the nursing environment of isolated patients has seriously affected the health, interests and freedom of patients, as well as the doctor-patient relationship. In order to reduce the loneliness of patients as much as possible, provide emotional support for patients' families and patients in daily life [15].
5.2 Team cooperation between patients and family members

Due to the large number of patients in the isolation room, it is difficult for nurses to take good care of each patient. When visiting patients, family members should pay attention to prevention, such as wearing protective gloves, protective clothing, etc. It avoids secondary infection and reduces the burden of nurses and unnecessary troubles. Therefore, we need the cooperation of the patient's family members and can only allow the family members to visit within the specified time. Patients' families also need to take corresponding measures to prevent infection [16].

5.3 Daily inspection of isolation equipment in isolation ward

In clinical experiments, nurses have good comprehensive quality to solve patients' personal problems, such as frequent hand washing, wearing disinfection gloves, protective masks, and preventing the invasion of some bacteria. It is the basic duty of nurses to check the disinfection and sanitation of medical equipment [17].

6. Discussion and Conclusion

6.1 Discussion of main findings

According to the results of this study, it is very important for nurses to provide corresponding nursing support when caring for isolated patients [17].

Nurses can give nursing intervention by observing the emotional changes of isolated patients, but the lack of nursing intervention knowledge of isolated patients is also a serious problem, which is also the main reason for loneliness of isolated patients [15].

The results also showed that the emotional changes of isolated patients and the support and help of their families are also very important, which can be achieved through the team cooperation between nurses and their families [18].

The results further showed that isolation measures to prevent infection were particularly important for isolating patients. Check and disinfect medical equipment regularly to reduce the incidence of infection. Preventive isolation is a common isolation method [17].

6.2 Ethical issues, reliability and validity

Most of the articles in this paper have corresponding ethical problems, and researchers only conduct research on the basis of participants' knowledge. When the research discusses the privacy of participants, the researcher guarantees that the participants will be protected during the research process and will not disclose the privacy of participants.

At the same time, the results of these studies are relatively reliable. Some of the participants in the study were patients who had been isolated. In addition, the patients who participated in the study discussion had different education levels.

6.3 Conclusion and suggestions for further research

The results of this study show that it is very important to provide different interventions to improve the psychological care of isolated patients according to their experiences and feelings. Through training, nurses can acquire enough basic nursing knowledge and humanistic nursing knowledge. Isolated patients can also reduce the negative emotions of patients through emotional support and care from their families, and at the same time reduce the negative emotions of patients with adverse effects on the disease.

References


