Urinary Catheterization In The Emergency Room In Patients With Complaints Of Pain

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Abstract

Urine retention is an emergency that must get immediate help / action, because total urine retention that lasts several days can result in urosepsis which can end in death, so it needs rapid management by catheterization. Comparing the effectiveness of jelly administration techniques applied to the tip of the catheter and jelly sprayed directly on the urethral meatus on pain complaints in patients with urinary catheterization. The type of research used is quasy experiment, the sample taken with purposive sampling technique, this study seeks to reveal the causal relationship of the dependent and independent variables with measurements after the intervention.

Keywords: Urinary Catheterization, Emergency Room, Patient, Pain Complaints

1. INTRODUCTION

Catheterization action is an invasive action and can cause pain, so if done in the wrong way it will cause permanent damage to the urethral tract (Basuki, B. Purnomo, 2008). Tissue irritation or necrosis can also be caused by the use of catheters whose size does not match the size of the urethral orifice, lack of use of jelly, excessive pressure, for example, fixing too tightly and the use of intermittent catheters that too often can damage skin tissue. The impact of pain as a result of spasm of the splaying muscle due to catheterization will occur bleeding and urethral damage that can cause permanent urethral stricture, this will aggravate the disease and extend patient care days. The use of jelly is intended to prevent spasm of the external urethral meatus muscle so
as to reduce irritation to the urethral wall (Iqbal, 2010).

Every catheter installation procedure must be considered principles that should not be abandoned, namely; Catheter installation is carried out aseptically by disinfecting sufficiently using materials that do not cause irritation to the skin of the genitalia and if necessary given prior prophylaxis, trying not to cause pain to the patient, using a catheter with the smallest size that is still effective enough to drain urine, if the use of a fixed catheter is needed, trying to use a closed system, a fixed catheter is maintained as short as possible until definitive action is taken on the cause of urine retention (Basuki, B. Purnomo, 2008).

2. METHODOLOGY

The type of research used is quasi experiment, the sample taken with purposive sampling technique, this study seeks to reveal the causal relationship of the dependent and independent variables with measurements after the intervention. Respondents who were intervened for urinary catheterization were previously observed regarding bladder tension, interviewed about the frequency of micturition in 24 hours and the sensation of stimulation to micturate, after it was confirmed that there was an indication for catheter installation, then the researcher gave informed consent to the respondent as a sign of agreement to be a research sample...

3. RESULTS AND DISCUSSION

Data collection in this study was carried out in the Emergency Room. This study was conducted for 1 month with a sample of 30 respondents consisting of 15 respondents who were catheterized using the technique of giving jelly lubrication method and 15 respondents who were catheterized using the technique of giving jelly oles method. Based on the results of data processing, the following statistical analysis is presented both univariate and bivariate.

a) Univariate Analysis

Univariate analysis in this study aims to see the frequency distribution of the characteristics of respondents including education, who are catheterized using the technique of giving jelly lubrication method with the oles method.

The results of the univariate analysis will be described as follows: Characteristics of respondents based on education.

Table 1. Comparison of Respondent Characteristics of Lubrication Method and Oles method based on Education Level in Emergency Room.

<table>
<thead>
<tr>
<th>Education</th>
<th>Lubrication method</th>
<th>Spread method</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary School</td>
<td></td>
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</table>
Based on table 1, it can be seen that respondents with the lubrication method, the highest level of education is junior high school, namely 5 respondents (16.7%), and respondents with the oles method, the highest level of education is elementary school, namely 6 respondents (20.0%).

The results showed that the average pain intensity experienced by respondents was lower in urine catheterization with the lubrication method with a mean value of 1.73 than the oles method with a mean value of 2.60. This shows that there is a difference between pain complaints of the lubrication method and the oles method.

Based on the results of this study, it can be seen that the technique of giving jelly lubrication method is able to reduce the risk of irritation and pain complaints experienced by patients, where this can be seen from the intensity of pain expressed by respondents that is lighter than the oles method.

4. CONCLUSION

Based on the results of the study and the description in the discussion, the researchers concluded that: There is an effect of jelly administration techniques on pain complaints in patients with urine catheterization with a meaning of p = 0.000 and There are differences in jelly administration techniques between the oles method and the lubrication method on pain complaints, where the lubrication method is lighter pain complaints with a mean of 1.73 while the oles method with a mean of 2.60.

5. Compliance with ethical standards

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Disclosure of conflict of interest

This research collaboration is a positive thing for all researchers so that conflicts, problems and
others are absolutely no problem for all writers.

**Statement of informed consent**
The author has made an agreement or mutual consent.

**References**

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