The Relationship Between Level Anxiety And Sleeping Quality of Breast Cancer Patients In One Day Care Chemotherapy Room

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INFORMASI

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ABSTRACT

Objective: Chemotherapy is one of therapy managements for breast cancer patients. Chemotherapy has some side effects like nausea, gag, alpoesia, etc. Those can increase patients' anxiety. Then, this anxiety will give impact on sleeping quality disorder. This research aims to identify the anxiety level of breast cancer patients in chemotherapy ODC room.

Methods: This research used crossectional design. There are 32 respondents as research sample choosen by purposive sample technic.

Results: The result shows that most respondents (68,75 %) didnot feel anxiety, 15,63% got mild anxiety, 9,38% got moderate and severe anxiety, and no one got panic anxiety. Most respondents (71,87) had good sleeping quality and 28,13% had poor sleeping quality. There is no relationship between level anxiety and sleeping quality of cancer patients with P value = 0,182.

Conclusion: There is no relationship between level anxiety and sleeping quality of cancer patients. Nurse should do persoal approach to patients who are still having severe anxiety and poor sleeping quality.

Keywords:
Breast Cancer, Sleeping Quality, Anxiety
INTRODUCTION
Modern lifestyle gives impact on people's life style changing where they have unhealthy life style, such as eating low fiber and high fat, preservative food, lack of regular exercises in which they can trigger diseases. One of diseases that is caused by unhealthy life style is Cancer. Cancer begins when normal cells are changed by genetic mutation from cellular DNA that cause damage of gen which set up the growth and differentiation of cells, therefore the growth and development of cells cannot be controlled (American Cancer Society (ACS), 2013). Breast cancer is one of the most invasive cancer on women and become the main cause of death on women caused by cancer (Rasidji, 2012). ASC (2013) estimates new cases of breast cancer invasive type are around 232,340 cases, Carcinoma in situ type (CIS) around 64,640 and around 39,620 women will die because of breast cancer. According to IARC Globocan (2008), there are 138 millions new cases of breast cancer that occur every year and 458 thousands of women dead caused by breast cancer. The amount of breast cancer patients in Indonesia is positioning on the first rank of hospitalized patients i.e. 16,85 % (SIRS, 2007 cited by Depkes RI, 2012). At RSKD Jakarta, the amount of new cases of breast cancer put on the first rank, even its percentage decreasing in 2010 and 2011. Breast cancer becomes the first rank of hospitalized patients in whole hospitals in Indonesia about 16,85% (SIRS, 2007 cited by Depkes RI, 2012).

Some medical management toward breast cancer patients are radiation therapy, chemotherapy, systemic therapy, hormonal therapy, targeted therapy, and surgery. (ACS, 2018). One of the most frequent management is chemotherapy. It is a systemic therapy by giving sitostatika medicines in order to eliminate cancer cells (Smeltzer & Bare, 2013). The purpose of chemotherapy is to reduce tumor size and to metastasis process. But after chemotherathy the negative impacts also arise. Some of the side effects of chemotherapy are hair loss, nausea, gag, mucositis, decreasing hemoglobin, constipation, etc. The effects of chemotherapy depend on the anti-cancer medicine given (Priestman, 2008). Because of the side effects, they cause anxiety toward breast cancer patients. The result of research done by Sarawati (2008, cited by Hidayah, Widodo and Sobirun, 2013) showed that from eleven respondents who are breast cancer patients 100% felt anxiety in different level, from normal anxiety to worst. According to the research of Hananta, Benita, Barus dan Halim (2014), 67,1% breast cancer patients feel anxiety. They, depression breast cancer patients, are 4,4 times risky to have sleep problem than they who do not feel depression. According to Handayani and Udani (2017 cited from Purwantari 2013), from 30 sample of breast cancer patients who have chemotherapy show meaningful deference between chemotherapy and patients sleeping quality (P<0,002). This research aims to identify the relationship between level anxiety and patients sleeping quality of breast cancer patients in One Day Care Chemotherapy room at Panti Rapih Hospital, Yogyakarta.

METHOD
This research used crosssectional design. The population is all breast cancer patients who got chemotherapy in One day Care Chemotherapy room at Panti Rapih Hospital, Yogyakarta in February to April 2019. The research samples are taken using purposive sampling. There are 32 respondents as sample who full fill the inclusi criteria, i.e:
1. The patient has composnetis awareness
2. The patient does not have verbal communication disorders
3. Age between 25-60 years old

The instruments of Data collection use HAM-A (Hamilton Anxiety Rating Scale) and PSQI (Pittsburgh Sleep Quality Index).

RESULT
Table 1. Characteristics of Breast Cancer Patient At Panti Rapih Hospital, Yogyakarta January – July 2019

<table>
<thead>
<tr>
<th>No</th>
<th>Respondent Characteristics</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
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</tbody>
</table>
| 1  | Gender | Male | 0 | 0%
|    |      | Female | 32 | 100%
| 2  | Age | Early Adulthood (26-35 th) | 3 | 9,37%
|    | Late Adulthood (36-45 th) | 5 | 15,62%
|    | Early Elderly (46-55 th) | 14 | 43,75%
|    | Midle Elderly (56-65 th) | 8 | 25%
|    | Late Elderly (>65 th) | 2 | 6,25%
| 3  | Cancer Stadium | Stadium 1 | 16 | 3,12%
|    | Stadium 2 | 13 | 40,62%
|    | Stadium 3 | 7 | 21,87%
|    | Stadium 4 | 11 | 34,37%
Table 2. Anxiety Level of Breast Cancer Patient At Panti Rapih Hospital, Yogyakarta January – July 2019

<table>
<thead>
<tr>
<th>Anxiety Level</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>22</td>
<td>68,75</td>
</tr>
<tr>
<td>Mild</td>
<td>5</td>
<td>15,63</td>
</tr>
<tr>
<td>Moderate</td>
<td>3</td>
<td>9,38</td>
</tr>
<tr>
<td>Severe</td>
<td>2</td>
<td>6,25</td>
</tr>
<tr>
<td>Panic</td>
<td>0</td>
<td>0,00</td>
</tr>
</tbody>
</table>

Result analysis data showed that the average score of respondents anxiety level is 14,38 (mild anxiety) while the average score for respondents sleeping quality is 4,69 (poor sleeping quality). The statistic test result using Spearman correlation showed $P_v=0,182 \ (P_v > 0,05)$, can be concluded that there is no significance relationship between anxiety level and sleeping quality of breast cancer patients who have chemotherapy in Chemotherapy One Day Care Room at Panti Rapih Hospital, Yogyakarta.

DISCUSSION

The research result shows that most breast cancer respondents are female. This result corresponds to American Cancer Society's data (ACS, 2019), in which most breast cancer case in America are suffered by female. According to ACS (2019), a woman is hundred times risky suffering from breast cancer rather than a man. According to researcher, one of the factors that influences this condition is estrogen as hormonal factor. Woman have more estrogen than man. The exposure of estrogen to breast cells continuously will trigger division and growth of breast cells. Estrogen can stimulate proliferation of breast epithel cells in two ways i.e. binding with $\alpha$ receptor that cause propagation. The second way, estrogen directly become genotoxic where its metabolit result like estrogen catechol carcinogenic and its oxidation process results free radicals that cause oxidative lession to DNA (Sandra, 2011). According to Kaczor (2010), estrogen can cause malignation in breast. It is because estrogen triggers cells proliferation process, angiogenesis and metastasis.

The research result shows that most respondents 68,75% (22 respondents) had no anxiety, 15,63% (5 respondents) had mild anxiety, 9,38% (3 respondents) had moderate anxiety and 6,25 (2 respondents) had severe anxiety and no one had panic one. According to Stuart (2013) someone’s level maturity will affect on someone’s level anxiety. The older a person is the more constructive his level of energy and maturity in using coping to face his problems. It corresponds to research result that shows most respondents did not feel anxiety and mild anxiety, they are mostly early elderly and late elderly, 46-65 years old.

The research result shows that most respondents (71,87%) did not feel anxiety. In this condition, patients felt more relax and better sleeping quality. However, Spearman correlation result showed $P_v=0,182 \ (P_v > 0,05)$, can be concluded that there is no significance relationship between level anxiety and sleeping quality of breast cancer patients who got chemotherapy in One Day Care Chemotherapy room at Panti Rapih Hospital, Yogyakarta. There are a lot of factors that make level anxiety and sleeping quality have no relationship. Anxiety level is only one of the factors that influence sleeping quality of breast cancer patients who are doing their chemotherapy. Recently, there are a lot of practices like meditation, yoga, music therapy, breathing exercises that can give relaxation to patients so their sleeping have some quality.

CONCLUSION

Most respondents (68,75%) did not feel anxiety, 15,63% felt mild anxiety, 9,38 felt moderate and severe anxiety, and no respondents felt panic. Most respondents (71,87) had good sleeping quality and 28,13% had poor sleeping quality. There is no relationship between anxiety level and sleeping quality of cancer patients with P value = 0,182

SUGGESTIONS

1. For Nurse
   Nurse can do personal approach to patient who still
has severe anxiety and poor sleeping quality.

2. Further Research
For further researchers can hold qualitative research to figure out deeper and to know the reasons. Besides, can test other factors that influence sleeping quality.

REFERENCES