ABSTRACT

Hypertensive disease in pregnancy (Preeclampsia and eclampsia) is one of three major causes of maternal death where approximately 85% of preeclampsia occurs in the first pregnancy, preeclampsia occurs in 14% to 20% of fetuses with more than one fetus and 30% of patients have anomaly of the uterus. Weight, Indonesia's health profile data 2015, indicates that maternal mortality increased to 359 per 100,000 and hypertension in pregnancy has a proportion or coverage increased by more than 25% of maternal deaths in Indonesia caused by hypertension in pregnancy. This study aims to determine the effect of administration Sayur Lilin against the drop in blood pressure in pregnant women.

This study uses quasi experimental method with one group pretest-posttest approach. With the number of samples used amounted to 10 respondents. Data collection was done by using data collection format and analyzed with SPSS 23.0 computer program.

The result showed that the systole blood pressure measurements before treatment were obtained mean (mean) 143.9 mmHg. The result of systole blood pressure measurement after 1 week treatment was obtained mean (mean) 142.6 mmHg. The result of measurement of diastolic blood pressure before treatment was obtained mean (mean) 93.5 mmHg. The result of measurement of diastolic blood pressure after treatment for 1 week was obtained mean of 92.6 mmHg.

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There was influence of linear vegetation on the blood pressure in pregnant woman with $P = 0.000$ ($P < 0.005$). The conclusion of this study is the provision of wax vegetables to pregnant women can help lower blood pressure in pregnant women.

**INTRODUCTION**

Pregnancy was an important episode at common women’s life and a physiological condition. But there were some conditions which could cause pregnancy was full of threat; any mom’s diseases that endangered her pregnancy and born process with risk.⁴

The data of Indonesia health profile 2015, showed that mom’s death rate increased to 359 per 100,000 and Hypertension at pregnancy had proportion or the scope was increasing, more than 25% of mom’s death caused by hypertension at pregnancy.⁵

Therefore, the government had done any breakthroughs in order to reduce the rate of mom’s death caused by hypertension at pregnancy by increasing midwife’s role and competency in handling those problems as early as possible by doing regularly checking to the pregnant mom and one of the program hoped to use plants as the medicine of any diseases, one of them was the using of lilin vegetable (*Setaria palmifolia*) that had some chemical contains of Tricosane (19.05%), Nonadecane (7.31%), nonadecyltrifluoroacetat (30.76%).

Plant of lilin vegetable was very useful for the rural community because before the government’s program entered especially at the small villages such as Papua, North Maluku, this lilin plant was lots used as natural comestible at daily life toward the decreasing of blood sugar at the sufferers.⁷

So that, based on the data above, the writer took the title of “Influence of giving lilin vegetable (*Setaria Palmifolia*) toward blood pressure (TD) of pregnant mom”.

**BASIC CONCEPT OF PREGNANCY**

**Meaning**

Pregnancy is a conception process in order to continue the generation until producing fetus which will grow inside the woman’s womb.⁸

**Indication and Symptom of Pregnancy**

According to Manuaba (2010), indications of pregnancy divided into 3:⁸

1) Indication of pregnancy suspects a) Amneorea (late of menstruation), the first of the last menstruation with naegle formula could be determined the childbirth estimation.

b) Queasy and (emesis), influence of estrogen dan progesterone.

**Hypertension at Pregnancy**

a. **Meaning of Hypertension**

According to Manuaba 2008, the existence of systolic at least 90 mmHg. That value was measured minimum twice with the time difference of 6 hours, defined as systolic blood pressure $\geq 140$ mmHg and diastolic blood pressure $\geq 90$ mmHg. Significance of each blood pressure measurement was related with gestation age inside.⁸

b. **Etiology**

According to Rukiyah 2010, the cause of hypertension was descendent or genetic, obesity, stress, cigarette, wrong way of eating, emotion of pregnant woman.¹⁰

b. **Indication and symptom**

Indication and symptom of pregnant woman with hypertension are:¹⁰

1) Systolic blood pressure was indicator in handling hypertension at pregnancy.

2) Hypertension diagnose was made if the diastolic blood pressure $90$ mm $Hg$ of 2 measurements at 1 hour of more.

3) Hypertension at pregnancy could be divided into 2 parts:¹¹

a) Hypertension because of pregnancy, if the hypertension was firstly occurred after 20 weeks pregnancy, during the childbirth, and or at 49 hours post childbirth.

b) Chronically hypertension, if the hypertension was occurred before 20 weeks pregnancy.

**Hipertensi Patofisiology**

According to Manuaba 2008, gestosis symptom couldn’t be explained with a factor or theory but it was multifactor that described any complex clinically manifestation called disease of theory. According to diet theory of pregnant mom, the needs of calcium for pregnant mom was high enough in order to form bone and other organs.

**Plant of Lilin Vegetable (*Setaria palmifolia*)**

Plant of lilin vegetable (*Setaria palmifolia*) included into horticulture plants that used it’s leave stem.¹³
Plant of lilin vegetable (*Setaria palmifolia*) could be planted at lowland and plateau.

**Conceptual Framework**

![Conceptual Framework Diagram](image)

**METHODS**

This research used *Quasy Experiment Design* with pretest and post test designs. 15

**METHODS**

<table>
<thead>
<tr>
<th>Pre Test</th>
<th>Intervention</th>
<th>Post Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>$O_1$</td>
<td>$X$</td>
<td>$O_2$</td>
</tr>
</tbody>
</table>

Explanation: $O_1$ measurement result before intervention. $O_2$ measurement result after intervention.

**RESULTS**

This research was conducted in Gosoma Village Tobelo Sub District North Halmahera Regency with the purpose to see the influence of giving lilin vegetable (*Setaria Palmifolia*) toward the Decreasing of Blood Pressure at Pregnant Mom in Gosoma Village Tobelo Sub District North Halmahera Regency in 2017.

Sample total of this research were 10 persons who had fulfilled inclusion criteria. The data of research had been analyzed became information with the purpose that the research was described in the form of table and explanation. The data was analyzed with *SPSS program for windows*, that was divided into univariat and bivariat analysis.

**Respondents Characteristic**

Respondents characteristic was special characteristic adhered at the respondents. Respondents characteristic at this research included age, gender, education, and profession. Description of respondents distribution based on the patients’ characteristic were as follow:

<table>
<thead>
<tr>
<th>Profession</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNS</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>Entrepreneur</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>Housewife</td>
<td>7</td>
<td>70</td>
</tr>
<tr>
<td>Total</td>
<td>10</td>
<td>100</td>
</tr>
</tbody>
</table>

For the respondents’ profession, it showed that the most of them was House wife of 7 persons (70.0%), while the least respondent was entrepreneur of 1 person (10.0%).

**DISCUSSION**

This research was conducted by doing intervention with giving lilin vegetable for 10 pregnant moms appropriate with inclusion and measurement...
criteria by using manual tension meter. After doing he
data collecting, it was done the data procession and
analyzing, so the discussion was as follow:

It was found that respondents’ characteristic
(pregnant mom at trimester II) which consisted of group
of age, gender, profession, where at table 1 could be seen
that at group of age 21-30 years old were 6 persons
(60.0%), and the result of direct interview with
respondents said that they didn’t have hypertension
profile at the previous and they got this hypertension
when their pregnancy entered trimester II, it was caused
many factors mainly their daily life style, and lack of
activities where from 10 respondents, there were 70%
were only as housewife and 50% respondents were only
SMP graduated, so their understanding about keeping
daily life style during pregnancy especially at the
trimester II was lack. Dimana, salah satu penyakit yang
ser

One of disease that threaten pregnancy was
hypertension, direct cause of mom death were
exsanguinations (28%), preeclampsia (24%), infection
(11%), complication (8%), long partus (5%), trauma
obstetric (5%), emboli obstetric (3%). According to
WHO, there was about 585.000 moms death per year
while pregnant or partus and 58,1 % of them caused by
preeclampsia dan ekklampsia\(^2\). The breakthrough in order
to decrease moms death that caused by hypertension at
pregnancy was using plant as medicine of any diseases,
one of them was using lilin vegetable (\textit{Setaria
palmifolia}).

CONCLUSION

Based on the research result and discussion
described at the previous chapter, it could be concluded
as follow:

1. Mean of Systole and Diastole blood pressure before the giving of lilin vegetable (\textit{Setaria palmifolia}) were 143.9 mmHg and 93.5 mmHg.
2. Mean of Systole and Diastole blood pressure after the giving of lilin vegetable (\textit{Setaria palmifolia}) 143.2 mmHg and 93.0 mmHg.

REFERENCES


