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<http://jurnal.strada.ac.id/jqph> | Email: jqph@strada.ac.id 9 Factors Determinant Anemia

Events in Pregnant Woman in Puskesmas Pesantren I Kediri City Ira Nurdiana1,

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Published : November 30, 2018 ABSTRACT Anemia of pregnant women has an impact on the rate of morbidity and maternal mortality, increased morbidity and fetal mortality, and increased risk of LBW.

The incidence of anemia is influenced by various factors, including diet, taboo food knowledge, and compliance of Fe tablets. The purpose of this study is to analyze the effect of anemia on pregnant women at Pesantren 1 Health Center of Kediri. The research design used is quantitative research using cross sectional approach.

The sampling technique used was simple random sampling with sample of 63 respondents of pregnant women at Pesantren 1 Health Center of Kediri. Data analysis technique used logistic regression test. The result of research showed that from 63 respondents, 32 (50,8%) respondents had bad eating pattern having anemia, as many as 25 (39,7%) respondents had poor taboo knowledge, 46%) respondents are less adherent in consuming Fe tablet so that anemia.

The results of analysis using logistic regression test showed significance value of rejected and H1 accepted, this means that there is influence of diet, taboo food knowledge, compliance drinking Fe tablet with the incidence of anemia. The most dominant factor

affecting the incidence of anemia is too food knowledge and adherence affects the incidence of anemia by 91% and the incidence of anemia in pregnant women is affected by other factors by 9%. Pregnant women who have poor adherence to consuming Fe tablets have anemia.

One of the efforts to reduce anemia is with a good diet, increased knowledge of pregnant women and motivate mothers to obediently take tablets. Keywords: Anemia, compliance drink tablet fe, tabuits food knowledge, diet Copyright © 2018 STIKes Surya Mitra Husada All right reserved. This is an open-access article distributed under the terms of the Creative Commons Attribution-ShareAlike 4.0 International License.

INTRODUCTION Pregnancy is a process that begins with the release of mature egg cells that meet the sperm, both together and form the cells that will grow (BKKBN, 2017). Pregnancy is a process that begins with the release of mature egg cells that meet the sperm, both together and form the cells that will grow (BKKBN, 2017). In this second trimester pregnancy, pregnant women often experience swelling of the legs.

This can be overcome by reducing the consumption of foods containing sodium and chloride ions (BKKBN, 2015). Additional energy during trimester II is necessary for the expansion of maternal tissue such as the addition of blood volume, uterine and breast growth, and fat Factors Determinant Anemia Events in Pregnant Woman Journal for Quality in Public Health 10 accumulation.

During trimester III additional energy is used for fetal and placental growth (Smith et al, 2013). Anemia is a deficiency of iron commonly afflicted by pregnant women. Basically anemia is a rational problem and has an enormous influence on human resources. Anemia is the world's second leading cause of disability and one of the most serious global public health issues (WHO, 2014).

According Soedjatmiko, if since adolescence anemi during pregnancy and childbirth will follow anemi. Iron is very important for brain development. As a result will be born infants with below average intelligence (Kompas, 2015). Anemia is one form of nutritional problems in Indonesian society, food and nutrition are closely related, because one's nutrient is affected by the food conditions consumed.

Food problems include food availability and food consumption insecurity influenced by poverty, low education, and customary beliefs associated with food taboos (Baliwati, Dwiriani, 2014) **MATERIALS AND RESEARCH METHODS** Research design The design of this research is analytical observation with cross sectional approach that is a research approach to see a relationship between several variables measured simultaneously and

only one measurement or observation without any follow-up.

The study measures the independent variables (diet, taboo food knowledge, adherence) and the dependent variable (incidence of anemia in pregnant women) simultaneously when the researchers met pregnant women at Pesantren 1 Puskesmas. Research time This research was conducted on February 5-24, 2018 at Puskesmas Pesantren 1 Kota Kediri.

Variables The independent variable is the causal variable or independent variable. Independent variables in this study are diet, taboo food knowledge and compliance drinking Fe tablets. The dependent variable is a dependent variable or an output variable. Dependent variable in this research is incidence of anemia in pregnant mother.

Materials Research Subjects Or Research Materials Population The target population inclusion criteria in this study were pregnant women who were willing to be the respondents of the study, the age of pregnancy trimester I - III and pregnant women who are (domiciled) in the work area of Pesantren I Health Center Pesantren Kediri, pregnant women who visited Puskesmas Pesantren I Kediri City.

The number of population of pregnant women in each month who visited the Community Health Center Pesantren I Kediri average as many as 75 pregnant women. Factors Determinant Anemia Events in Pregnant Woman Journal for Quality in Public Health 11 Sample The sample size in this study was calculated using the following formula: $n = \frac{N}{1 + \frac{N \cdot e}{k}}$ where n = sample size, N = large population, a = error value. With a large population of 75 pregnant women, the sample size on this thesis proposal can be calculated as follows: respondents Sampling Technique This research uses simple random sampling technique that is sampling technique from target population by taking randomly.

In this study, the number of sample subjects 63 pregnant women in UPTD Puskesmas Pesantren 1 Kediri City. Instrument In collecting the data, the researcher used questionnaire as the instrument, which was developed with Likert scale approach. Variable diet pattern, taboo food knowledge using Likert scale approach for the variable of Fe tablet drink compliance using pill count method, and the occurrence of anemia using cyanmethemoglobin method.

Before the research tool used in the first tested the validity test for reliability test Data analysis To determine what factors influence the incidence of anemia in pregnant women trimester II ordinal logistic regression test = Toget ndepe iablested th dependent variable using ordinal logistic regression test to know which independent variables have influence and the most influential to the dependent variable.

RESULTS To know the factors that influence the incidence of anemia in pregnant women at Pesantren I Health Center Kediri, tested using statistical test regression logistic, using SPSS for Windows version 21.0. The results of the analysis are as follows: Factors Determinant Anemia Events in Pregnant Woman Journal for Quality in Public Health 12 Model Fitting Information Table 1.

Test Results Model Fitting Information Model Fitting Information Model Model Fitting Criteria Likelihood Ratio Tests -2 Log Likelihood Chi-Square df Sig. Intercept Only 80,917 Final 9,516 71,400 5 ,000 Source : Primary data of research in 2017 Results of statistical tests to pregnant women at Pesantren I Kediri City Health Center using a degree of error of 0.05 obtained p value of 0.000.

If p value < degree of error then there is influence between dietary variables, taboo food knowledge and adherence to the incidence of anemia in pregnant women at Pesantren I Health Center Kediri. Tabel 2. Pseudo R-Square test results Pseudo R-Square Cox and Snell ,678 Nagelkerke ,910 McFadden ,830 The results of statistical test in this study obtained value Pseudo R -Square at Nagelkerke of 0.910 this means diet, taboo food knowledge and compliance affect the incidence of anemia in pregnant women by 91.0% and the rest influenced by other factors by 9% Effect of Dietary Factor with Pregnancy Anemia To determine the effect of dietary factors with the incidence of anemia of pregnant women, used statistical test logistic regression with the following results: Table 3.

The results of statistical test of the influence of diet with anemia incidence of pregnant women in UPTD Puskesmas Pesantren 1 Kota Kediri Based on table 3 it is known that p-value = 0,000, which means <0.05, so H1 is accepted. Thus on the bivariate test it is known that there is an influence between diet with anemia incidence of pregnant women in UPTD Puskesmas Pesantren 1 Kediri City.

Factors Determinant Anemia Events in Pregnant Woman Journal for Quality in Public Health 13 The Influence of Food Stress Knowledge Factor with Pregnancy Anemia To know the influence of food knowledge factors taboo with the incidence of anemia of pregnant women, used statistical test logistic regressi with result as follows: Table 4.

Statistical results of the influence of taboo food knowledge with the incidence of anemia of pregnant women in UPTD Puskesmas Pesantren 1 Kota Kediri Based on table 4 it is known that p-value = 0,000, which means <0.05, so H2 is accepted. Thus in bivariate test known that there is influence between taboo food knowledge with the incidence of anemia of pregnant women in UPTD Puskesmas Pesantren 1 Kota Kediri Influence of

Compliance Factors with Pregnancy Anemia To know the influence of adherence factor with **the incidence of anemia** of pregnant mother, used statistic test logistic regressi with result as follows Table 5.

Statistical results of the effect of adherence to the incidence of maternal anemia in **UPTD Puskesmas Pesantren 1 Kota Kediri** Based on table 5 it is known that $p\text{-value} = 0,000$, which means <0.05 , so H3 is accepted. Thus in bivariate test known that there is influence between adherence to **the incidence of anemia of pregnant women in UPTD Puskesmas Pesantren 1 Kota Kediri** The Most Dominant Factors Influencing Pregnancy Anemia To determine the most dominant factors that affect the incidence of maternal anemia, used statistical test of logistic regression follows: Table 6.

The result of statistical test of logistic regression of the influence of **diet, taboo food knowledge** and adherence to **the incidence of anemia of pregnant women at UPTD Puskesmas Pesantren 1 Kota Kediri** **Factors Determinant Anemia Events in Pregnant Woman Journal for Quality in Public Health 14** From the statistical test of logistic regression, $p\text{-value}$ on the dietary factor $p = 0,030 <0,05$, H1 was accepted, the taboo food knowledge factor $p = 0,040 <0,05$, H2 was accepted, and on the adherence factor $p = 0.027 <0.05$, then H3 is accepted.

Thus it is known that **diet, taboo food knowledge** and adherence are factors that affect the incidence of maternal anemia. The magnitude of influence is shown by the value of EXP (B) or also called ODDS RATIO (OR). Variable X1 (diet) with OR 29,545, while variable X2 (taboo food knowledge) with OR 17,801 and variable X3 (adherence) show **OR equal to 45,379.**

Based on these results OR or the magnitude of the greatest or dominant influence lies in the variable X3 with large OR 45,379. **So it can be concluded that** the most dominant factor affecting Y (the incidence of anemia of pregnant women) is maternity compliance factor in consuming Fe tableat, with the influence of 45,379. DISCUSSION Improve a healthy diet that contains iron from food.

Eating **a wide variety of** nutrient-rich foods including vitamins can increase iron absorption, such as vitamin C. Changing dietary habits and clean living. The level of knowledge of taboo foods influences his behavior, the high level of education or knowledge, the higher the awareness to prevent anemia. Iron supplementation is beneficial because it can improve the status of hemoglobin in a relatively short time.

The nutritional needs of pregnant women increase during pregnancy. Nutrition is used by mother and baby. Most needed is the need for iron, if the mother lacks the substance

the pregnant mother suffers from anemia. For that, in addition to attention to a good diet, pregnant women should drink regular Fe tablet so that iron needs during pregnancy can be met.

Efforts to improve the nutrition of pregnant women in order to avoid anemia, pregnant women need to consume nutrients from a good diet, increase knowledge of nutritional and nutritional needs during pregnancy, taking regular Fe tablets. CONCLUSION There is influence of pregnant woman's diet against the incidence of anemia at Pesantren 1 Health Center Kediri.

There is a significant correlation between diet with age, occupation, education and compliance drinking Fe tablet with incidence of anemia of pregnant mother at Pesantren 1 Health Center of Kediri City. There is influence of maternal obedience to the incidence of anemia in pregnant women at Pesantren I Health Center Kediri. Disobedience by pregnant drinking tablet Fe, caused no discipline in drinking it, refused because it resulted in nausea.

Results of statistical tests to pregnant women at Pesantren I Kediri City Health Center using a degree of error of 0.05 obtained p value of 0.000. If p value < degree of error then there is influence between dietary variables, taboos food knowledge and adherence to the incidence of anemia in pregnant women at Pesantren I Health Center Kediri.

The most dominant factor affecting Y (morbidity of anemia of pregnant mother) is maternity compliance factor in consuming Fe tableat, with influence of 45,379. Factors Determinant Anemia Events in Pregnant Woman Journal for Quality in Public Health 15 BIBLIOGRAPHY Alimul. (2013). Metode Penelitian dan Keperawatan & Tehnik Analisa Data. Jakarta: Salemba Medika. Ambarwati, Eny Retna. (2012). Asuhan Kebidanan Nifas. Jogjakarta: Nuha Medika.

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