

Research Article

The Influence of Education Level and Occupation of Pregnant Women to the use of Maternal and Child Health (MCH) Handbook

Pengaruh Tingkat Pendidikan dan Pekerjaan Ibu Hamil dengan Pemanfaatan Buku Kesehatan Ibu dan Anak (KIA)

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Abstract

Objective : To investigate the relationship between education level and occupation of pregnant women with MCH handbook utilization at the Pekauman Public Health Center of Banjarmasin in July–August 2018.

Methods : The method that was used is analytical observational research with cross-sectional design. The number of research sample is 50 people with systematic random sampling techniques, and data were analyzed by chi-square statistical tests.

Results : The majority of respondents were 34 pregnant women (68%) with low education level, and 36 pregnant women (72%) were unemployed. There were 36 pregnant women (72%) with ineffective MCH handbook utilization. The statistical result between education level of pregnant women with MCH handbook utilization is p -value = 0.005 ($p < 0.05$) and between occupation of pregnant woman with MCH handbook utilization is p -value = 0.001 ($p < 0.05$).

Conclusions : There a significant relationship of education level and occupation of pregnant women with MCH handbook utilization at the Pekauman Public Health Center of Banjarmasin in July–August 2018.

Keywords : level of education, occupation, MCH handbook.

Abstrak

Tujuan : Untuk mengetahui hubungan tingkat pendidikan dan pekerjaan Ibu hamil dengan pemanfaatan buku KIA di Puskesmas Pekauman Banjarmasin Periode Juli–Agustus 2018.

Metode : Metode yang digunakan adalah observasional analitik dengan desain potong lintang. Besar sampel penelitian adalah 50 orang dengan teknik pengambilan systematic random sampling dan data dianalisis dengan uji statistik chi square.

Hasil : Sebagian besar responden adalah 34 ibu hamil (68%) dengan tingkat pendidikan rendah dan 36 ibu hamil (72%) yang tidak bekerja. Terdapat 36 ibu hamil (72%) dengan pemanfaatan buku KIA yang tidak efektif. Hasil uji statistik antara tingkat pendidikan ibu hamil dengan penggunaan buku KIA adalah p value = 0.005 ($p < 0.05$) dan antara pekerjaan ibu hamil dengan pemanfaatan buku KIA adalah p value = 0.001 ($p < 0.05$).

Kesimpulan : Terdapat hubungan yang bermakna tingkat pendidikan dan pekerjaan ibu hamil dengan pemanfaatan buku KIA di Puskesmas Pekauman Banjarmasin periode Juli–Agustus 2018.

Kata kunci : tingkat pendidikan, pekerjaan, buku KIA.

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INTRODUCTION

Maternal and Child Health (MCH) handbook is complete records and media information for pregnant women and her baby.¹ The government provides the MCH handbook to reduce Maternal Mortality Rate (MMR) and Infant Mortality Rate (IMR).² However, previous research found out that most of the MCH handbook utilization by pregnant women was still ineffective.³ MCH handbook utilization as health behaviour is influenced by predisposing factors such as the level of intelligence, emotional level, information, and

characteristics (age, education, occupation, and experience).^{4,5} Based on this, the researcher aims to find out the relationship between education level and occupation of pregnant women with MCH handbook utilization. Based on the results of this study, it is expected that the government and health worker can conduct counselling on target.

METHODS

The method that was used is analytical observational research with a cross-sectional

design, using a questionnaire to pregnant women who made antenatal care visits at the Pekauman Public Health Center of Banjarmasin in July-August 2018. The number of research sample is 50 people with systematic random sampling techniques according to inclusion and exclusion criteria. The data were analyzed by chi-square statistical tests and Fisher alternative test (if expected count <5). Because the data obtained one cell (25%) with expected count 4.48 at the level of higher education and effective use and one cell (25%) with expected count 3.92 in the working category and effective use, which is < 5 so that alternative tests were used with Fisher's test.

RESULTS

The inclusion criteria for this study were pregnant women aged 20-40 years. The majority of respondents are 34 pregnant women (68%) with low education level and 36 pregnant women (72%) that were unemployed. There 36 pregnant women (72%) with ineffective MCH handbook utilization. Distribution of the respondents is presented in Table 1-3.

Table. 1 Distribution of Respondents Based on MCH Handbook Utilization at the Pekauman Public Health Center of Banjarmasin in July-August 2018

MCH handbook utilization	n	%
Ineffective	36	72
Effective	14	28
Total	50	100

The statistical results for the relationship of education level and occupation of pregnant women with MCH handbook utilization are presented in Table 2.

Table. 2 The Relationship of the Education level of Pregnant Women with MCH Handbook Utilization at the Pekauman Public Health Center of Banjarmasin in July-August 2018

Education level of pregnant women	MCH handbook Utilization				Total	P-value	OR
	Ineffective		Effective				
	n	%	n	%			
Low education	29	85.3	5	14.7	100	0.005	7.457
High education	7	43.8	9	56.2	100		

Table. 3 The Relationship of Occupation of Pregnant Women with MCH Handbook Utilization at the Pekauman Public Health Center of Banjarmasin in July-August 2018

Occupation of pregnant women	MCH handbook Utilization				Total	P-value	OR
	Ineffective		Effective				
	n	%	n	%			
Non-working	31	86.1	5	13.9	100	0.001	11.160
Working	5	35.7	9	64,3	100		

DISCUSSION

In this study, pregnant women with low education level have the highest number, which is 68%. Someone's education level can be influenced by the motivation of individuals to pursue education (ideals), social conditions (family and community environment), family economic conditions,

parent motivation, culture, and accessibility to educational facilities (distance, travel time, road facilities and transportation).⁶

Among respondents, most pregnant women do not work, which is 72%. Occupation describes the position of a person in society and occupation also describes a person's economic ability to

meet their needs. Occupation is also related to the level of someone's busy life.⁷

Most of the respondents are ineffective in using MCH handbook, which is 72%. Green states that health behaviour is influenced by three factors, namely predisposing factors, supporting factors, and driving factors. Predisposing factors include attitudes, beliefs, knowledge, values and culture that are manifested in education, work, age, experience, culture and information. Supporting factors include the distance of health services, family economic status, and availability of facilities. The driving factors include motivation from the family and support from health workers in the form of counseling.^{8,9}

The results of cross-tabulation between the level of education and the utilization of the MCH handbook by pregnant women showed that the categories that were not effective in utilizing the MCH handbook were mostly found in pregnant women with a low education level of 29 respondents (85.3%). This is in accordance with the research in 2016, which states that the level of education influences changes in attitudes and behaviour. The low level of education makes it difficult for a person to absorb information and apply it in daily life, especially in terms of health.^{10,11} The less education level of pregnant women, the less the level of awareness of responsibility for health. Based on this, the lower the level of education of pregnant women, the more pregnant women are not effective in utilizing the MCH handbook.

Based on the results of statistical tests with the Fisher test at Table 2, it was found that there was a significant relationship between the level of education of pregnant women and the utilization of MCH handbook ($p\text{-value} = 0.005 < 0.05$).

This study found that most pregnant women with a low level of education and ineffective use the MCH handbook. Based on Nursalam's theory, education determines how to receive one's information. Someone with a low education level will hinder the development of one's attitude towards the acceptance of information and newly introduced values.¹⁰ The less education level of pregnant women, the less informed in the MCH handbook that pregnant women can receive, the less the behaviour of pregnant women in carrying

out information in the MCH handbook, in this case, the use of the MCH handbook becomes ineffective. Based on Table 2, it can be seen that the value of Odds Ratio = 7.457, which means pregnant women with a low level of education have a risk of 7 times ineffective in utilizing MCH handbook than pregnant women with higher education levels.

The results of cross-tabulation between occupations and utilization of MCH handbook by pregnant women showed that the categories that were ineffective in using the MCH handbook were 31 respondents (86.1%). Contrary to the results research in 2016 at the Kelasan Sleman Public Health Center stating that most pregnant women who use MCH handbook are pregnant women who do not work because there is more time to pay attention to their pregnancy and get information about maternal and child health through health workers.^{12,13}

Based on the results of statistical tests with the Fisher test at Table 2, it was found that there was a significant relationship between the occupation of pregnant women and the use of MCH handbook ($p\text{-value} = 0.001 < 0.05$).

This study found that most pregnant women as housewives in the category non-working effectively in utilizing MCH handbook because according to research in 2017 the status of a housewife cannot guarantee that pregnant women have a lot of free time to read KIA books at home. Pregnant women as housewives have quite a busy schedule taking care of their home needs, their husbands and children. Based on Table 3, the value of Odds Ratio = 11.160 means that pregnant women with non-working categories have 11 times the risk of being ineffective in utilizing MCH handbook compared with pregnant women who work.

In 2015 respondents who worked outside and had many friends were very likely to have good knowledge and be more effective in utilizing MCH handbook compared to respondents who only worked around the house or even those who did not work. Respondents who do not work and are only at home, they get little information as a result of less association with others. The status of pregnant women who work does not guarantee that pregnant women do not have time to read

the MCH handbook.^{10,14,15} Pregnant women who receive sufficient information, support, and motivation from the work environment can be more effective in utilizing the MCH handbooks.

The use of the MCH handbook is more effective for working mothers, but in 2015 it is recommended for pregnant women to reduce the workload that is too heavy because it will have an adverse impact on their pregnancy.^{16,17}

CONCLUSION

We found that most of the education levels of pregnant women in the low education category were 34 people (68%) and 36 pregnant women did not work (72%) Most of the use of the MCH handbook by pregnant women was 36 people (72%) were not effective in utilizing it. There is a meaningful relationship between the level of education and occupation of pregnant women and the utilization of the MCH handbook. This research is expected to be able to inform health care workers and local governments in the upcoming counseling regarding the importance of the MCH handbook as an effort to reduce maternal and infant mortality, especially in pregnant women with low education and not working.

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